

TO SUPERSEDE ALL PREVIOUS LISTS

JANUARY 1, 1911

SUBJECT TO CHANGE WITHOUT NOTICE

PRICE LIST J

GEORGE E. GILCHRIST CO.

MANUFACTURERS AND JOBBERS OF
STEAM, GAS AND PLUMBING SUPPLIES



**Material for Mills, Power Plants and Water Works
IRON AND BRASS PIPE**

OFFICE AND SALESROOMS

106 to 110 High and 204-216 Congress Sts., BOSTON, MASS.



Digitized by

The Association for Preservation Technology International

For the

Building Technology Heritage Library

<http://archive.org/details/buildingtechnologyheritagelibrary>

JANUARY 8, 1910

WROUGHT PIPE

Internal Diam.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	11	12
Steam and Gas	$5\frac{1}{2}$	$5\frac{1}{2}$	$5\frac{1}{2}$	$8\frac{1}{2}$	$11\frac{1}{2}$	$16\frac{1}{2}$	$22\frac{1}{2}$	$27\frac{1}{2}$	36	$57\frac{1}{2}$	$75\frac{1}{2}$	95	1 08	1 30	1 45	1 88	2 35	2 82	3 40	4 00		4 90
Tarred		7	7	10	$14\frac{1}{2}$	$20\frac{1}{2}$	$27\frac{1}{2}$	$32\frac{1}{2}$	43	65	85	1 05	1 20							3 50		
Galvanized	$5\frac{1}{2}$	$5\frac{1}{2}$	$5\frac{1}{2}$	$8\frac{1}{2}$	$11\frac{1}{2}$	$16\frac{1}{2}$	$22\frac{1}{2}$	$27\frac{1}{2}$	36	$57\frac{1}{2}$	$75\frac{1}{2}$	95	1 08	1 30	1 45	1 88	2 35	2 82				
Enameled																						
Extra Strong	11	11	11	12	15	22	30	36	50	81	1 05	1 33	1 50	1 95	2 16	2 90	3 80	4 30				
Dble. Ex. Stg.				25	30	37	52	65	95	1 37	1 92	2 45	2 85	3 30	3 80	5 30	6 25	7 20				

AUGUST 25, 1900

LAP-WELDED BOILER FLUES

Outside Diameter	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{2}$	5	6	7	8	9	10
Price per Foot	30	28	27	22	20	24	28	34	35	40	44	50	55	62	75	1 00	1 20	1 50	1 70	2 10

OCTOBER 7, 1899

FITTINGS FOR WROUGHT PIPE

Diameter of Pipe	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Elbows—M. I.	4	4	6	10	15	22	25	35	50	80	1 50	2 25	3 00							
Tees—M. I.	7	7	8	11	15	25	30	45	60	1 05	1 70	2 50	3 40							
Crosses—M. I.		8	10	12	20	30	40	60	1 00	1 75	3 00	3 25	5 25							
Elbows, Cast Iron		5	5	6	8	$10\frac{1}{2}$	16	20	28	50	75	1 05	1 20	1 75	2 00	2 75	4 70	6 75	13 50	20 00
" R.&L.&R'D C.I.		6	6	7	9	12	18	23	32	60	85	1 20	1 40	2 00	2 30	3 15	5 40	7 75	15 50	23 00
" 45° Mall. Iron		8	10	12	18	26	36	54	82	1 60	2 10	3 00	4 50							
" 45° Cast Iron		6	6	7	10	12	19	24	34	60	90	1 25	1 45	2 20	2 50	3 45	5 90	8 50	17 00	25 00
Tees, Cast Iron		8	8	9	12	15	23	29	41	73	1 10	1 50	1 75	2 55	3 00	4 00	6 80	9 75	19 50	29 00
" Reduc'g "			9	10	14	17	27	33	47	83	1 25	1 75	2 00	2 95	3 50	4 60	7 80	11 25	22 50	33 50
Crosses, Cast Iron			15	16	22	27	42	53	75	1 30	2 00	2 70	3 15	4 60	5 50	7 25	12 25	17 50	35 00	52 50
" Reduc'g " "				18	25	30	46	60	83	1 45	2 20	3 00	3 50	5 10	6 00	8 00	13 50	19 25	38 50	58 00
Air Plugs.				12	15	20	25	30	45	60										
Beam Hooks.				13	15	18	22	24	35	65	90									
Bushings.	4	4	4	5	6	7	9	14	21	30	40	50	75	93	1 25	1 87	2 75	3 75	5 00	
Bushings, faced			8	9	11	13	17	22	32	48	70	1 20	1 50	2 00						
Caps, Cast Iron									26	40	54	75	87	1 05	1 20	1 55	2 50	2 85	5 50	7 00
Caps, Mall. Iron		3	4	5	8	12	16	24	32	45	85	1 50	2 00							
Coupl'gs w. I.—R.H.		5	5	6	7	10	13	17	21	28	40	60	80	1 00	1 50	1 65	2 40	3 25	4 25	7 50
Coupl'gs w. I.—R.&L.		7	7	8	11	15	20	25	30	50	85	1 20	1 60	2 00						
Coupl'gs M. I.—R.H.	3	3	4	7	10	14	20	25	35	50	75									
Coupl'gs M. I.—R.&L.		4	5	8	12	16	25	36	52	75	1 00									
Coupl'gs c. i. Offset						50	55	72	1 00	1 50	2 40	3 00	4 00		6 00	8 00				
Drop Elbows		6	8	12	20	25														
Drop Tees		8	10	14	22	30														
Locknuts, C. I.									25	27	34		47	64	85	90	1 30	1 70	2 35	3 00
Locknuts, Mall. Iron	2	3	4	5	7	9	11	18	40	50										
Locknuts, W'ght Ir.						1 10	1 15	1 20	1 50	1 75	2 00									
Offsets, set off 4 in.					45	70	1 00	1 20	1 80	3 00	4 00	5 00	6 00		8 00	10 00				
Offsets, set off 6 in.					67	1 05	1 50	1 80	2 70	4 50	6 00	7 50	9 00		12 00	15 00				
Offsets, set off 8 in.					90	1 40	2 00	2 40	3 60	6 00	8 00	10 00	12 00		16 00	20 00				
Plugs, Cast Iron	2	2	2	2	3	4	5	7	10	18	25	38	42	65	88	1 20	1 85	2 75	3 75	5 00
Plugs, Mall. Iron	3	3	3	5	8	10	16	19	30											
Plugs, Socket				4	6	8	9	11	15	30	40	62	70		2 70					
Plugs, Solid	4	4	4	4	6	8	9	11	15	27	38	57	63	1 00	1 35	1 80	2 80	4 15	5 75	7 50
Plugs, Left Hand					6	8	9	11	15											
Red'c'g Coup. C.I.									43	60	80	1 00	1 35	1 85	2 00	2 70	5 35	6 75	10 00	15 00
Red'c'g Coup. M. I.	3	3	5	10	16	20	28	45	70	1 00	1 50	1 85								
Red'c'g Coup. Offset				50	50	55	72	1 00	1 50	2 40	3 00	4 00			6 00	8 00				
Return Bend, c. p., c. i.				18	20	22	28	40	57	1 20	1 70									
Return C. P. C. I. R.&L.				21	23	26	33	46	66	1 40	1 95									
Return C. P. M. I.				13	25	35	50	75	1 00											
Return C. I., Open				25	26	30	40	55	80	1 35	2 20									
Return C. I. op. R. & L.				30	30	35	46	64	92	1 55	2 50									
Return M. I., Open	13	15	30	50	65	85	1 25	2 00												
Return c. i. op. B. O.				38	42	60	80	1 15	2 00	3 00										
Return c. p. c. i. pitched						26	33													
Return ditto R. & L.						26	33													
Sh't Sh'nk Ho'ks, c. i.				8	9	10	15	22	35	45										
Side Outlet Elb's, c. i.				18	24	30	48	60	84	1 50	2 25	3 15	3 60	5 25	6 00	8 25				
Side Outlet Elb's, M. I.				8	10	18	30	45	60											
Side Outlet Tee, c. i.				27	36	45	70	90	1 25	2 25	3 25	4 50	5 25	7 65	9 00	12 00				
Side Outlet Tee, M. I.				12	14	20	35	50	80											
Street Elbows, M. I.				10	12	20	25	40	55	90										
Tin'd Straps, S. Iron	1	1	1	2	$2\frac{1}{2}$	3	4	5												
Union Flanges	37	40	46	52	64	78	1 00	1 25	1 50	1 80	2 10	2 70	3 15	3 95	5 50	7 00	11 50	16 00		
Waste Nuts, Oval	4	5	6	8	10															
W. I. Hooks																				
W. I. Service Bends				28	37	56	77	1 12	1 65											
Y Branches, c. i.				18	20	34	54	66	94	1 66	2 50	3 50	4 00	5 90	7 00	9 20	15 60	22 50	45 00	67 00
Y Branches, Reducing				23	33	40	62	76	1 08	1 90	2 90	4 00	4 60	6 80	8 00	10 60	18 00	26 00	51 75	77 00
Y Branches, M. I.				25	40	60	80	1 00	1 70	2 00	4 00									
Drive Pipe Couplings				10	12	15	25	30	40	60	80									
Drive Pipe " R. & L.				15	18	23	38	45	70	1 20	1 60									

Right and Left and Left Hand Fitting not specified above will be charged 15 per cent more than Right Hand Fittings

OCTOBER 5, 1899

WROUGHT IRON NIPPLES

Size	$\frac{1}{8}$, $\frac{1}{4}$ or $\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Length, Close	$\frac{3}{4}$, $\frac{7}{8}$, 1	1 $\frac{1}{8}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{2}$	2 $\frac{1}{2}$
Length, Short	1 $\frac{1}{8}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	2 $\frac{3}{4}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	3	3
Length, Long	2 to 3 $\frac{1}{2}$	2 to 3 $\frac{1}{2}$	2 $\frac{1}{2}$ to 4	2 $\frac{1}{2}$ to 4	3 to 4 $\frac{1}{2}$	3 to 4 $\frac{1}{2}$	3 to 4 $\frac{1}{2}$	3 $\frac{1}{2}$ to 5	3 $\frac{1}{2}$ to 5
	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.
Close or Short	4 5 6	5 7 6	6 8 8	8 11 11	11 15 17	13 18 21	18 24 27	39 52 56	48 65 70
Long	6 8 11	7 10 11	9 12 14	13 18 19	17 23 29	20 27 35	27 36 47	59 79 86	72 96 110
4 in. Long	7 9 12	8 11 13							
5 in. Long	8 11 15	10 13 16	11 15 18	15 20 24	20 27 32	25 34 39	32 43 52		
6 in. Long	10 13 17	12 16 18	13 17 21	18 24 28	24 32 38	29 39 46	38 51 61	68 91 100	85 113 130
7 in. Long	12 16 21	14 18 23	17 23 26	23 31 34	29 39 45	36 48 55	50 67 74	90 120 126	108 144 160
8 in. Long	14 18 24	16 21 26	18 25 29	25 33 38	33 45 51	40 52 63	54 72 83	97 130 141	120 160 180
9 in. Long	15 20 26	18 24 28	20 27 32	28 37 42	36 50 57	45 60 70	59 80 93	106 140 156	133 177 200
10 in. Long	17 23 29	20 27 31	22 29 35	31 41 47	40 55 63	50 67 77	65 87 103	117 155 171	145 193 220
11 in. Long	18 25 31	22 29 33	24 32 38	34 45 51	44 60 69	54 72 84	72 96 113	126 168 186	158 210 240
12 in. Long	19 27 34	23 31 36	26 35 41	36 48 55	47 65 75	59 80 91	77 103 123	135 180 201	170 227 260

Wrought Iron Nipples — Continued

Size	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8	9	10	12
Length, Close	2 $\frac{3}{4}$	3	3	3 $\frac{1}{2}$	3 $\frac{1}{2}$	4	4	5	5	5
Length, Short	4	4	4	4 $\frac{1}{2}$	4 $\frac{1}{2}$	5	5	6	6	6
Length, Long	4 $\frac{1}{2}$ to 6	4 $\frac{1}{2}$ to 6	4 $\frac{1}{2}$ to 6	5 to 6 $\frac{1}{2}$	5 to 6 $\frac{1}{2}$	6	6	8	8	8
	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.	RIGHT R. & L. GALV.
Close or Short	75 1 00 1 20	85 1 15 1 35	1 25 1 85	1 55 2 30	1 85 2 80	3 20 4 25	3 55 5 00	5 25 6 50	6 75 8 00	10 00
Long	1 05 1 40 1 70	1 20 1 60 1 87	1 70 2 60	2 45 3 15	2 90 4 25	3 60 4 95	4 05 5 80	6 50 8 25	10 00	
7 in. Long	1 30 1 75 2 10	1 52 2 00 2 30	2 25 3 30	2 58 3 75	3 05 4 50	4 00 5 65	4 55 6 65			
8 in. Long	1 45 1 95 2 35	1 69 2 25 2 60	2 50 3 65	2 82 4 20	3 35 5 05	4 45 6 35	5 05 7 50			
9 in. Long	1 60 2 15 2 60	1 87 2 50 2 90	2 75 4 05	3 10 4 60	3 70 5 55	4 90 7 05	5 50 8 35	7 10 8 90	10 80	
10 in. Long	1 75 2 35 2 85	2 05 2 75 3 20	2 95 4 45	3 35 5 00	4 00 6 05	5 30 7 75	6 00 9 25	7 75 9 70	11 75	
11 in. Long	1 90 2 55 3 15	2 22 3 00 3 50	3 17 4 85	3 60 5 40	4 30 6 60	5 75 8 45	6 50 10 10	8 40 10 40	12 70	
12 in. Long	2 05 2 75 3 40	2 40 3 25 3 80	3 40 5 25	3 85 5 85	4 65 7 16	6 15 9 20	7 00 10 95	9 00 11 15	13 65	

Sixty per cent to be added to the price of R. & L. black nipples, for R. & L. galvanized.
Extra strong nipples double above lists.

BRANCH TEES, HOOK PLATES, ETC.

Number of Branches	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1 in. Outlet, 1 or 1 $\frac{1}{4}$ in. run	90	1 05	1 15	1 35	1 60	1 90	2 20	2 65	3 15	3 75	4 40	5 00				
1 in. Outlet, 1 $\frac{1}{2}$ in. run	1 00	1 15	1 30	1 45	1 75	2 20	2 45	2 90	3 30	4 50	4 75	5 50	7 00	7 50	8 00	
1 in. Outlet, 2 in. run	1 15	1 35	1 60	1 85	2 10	2 45	2 75	3 40	4 00	4 80	5 10	6 00	7 25	7 75	8 25	
1 in. Outlet, 2 $\frac{1}{2}$ in. run	1 75	2 05	2 40	2 75	3 10	3 50	3 75	4 30	5 00	5 50	5 85	6 30				
1 $\frac{1}{4}$ in. Outlet, 1 $\frac{1}{4}$ or 1 $\frac{1}{2}$ in. run	1 30	1 65	2 00	2 40	2 80	3 20	3 60	4 30	4 80	5 00	5 25	6 00	7 50			
1 $\frac{1}{4}$ in. Outlet, 2 in. run	1 50	1 90	2 40	2 90	3 30	3 90	4 50	5 25	5 85	6 25	6 50	7 00	9 50			
1 $\frac{1}{4}$ in. Outlet, 2 $\frac{1}{2}$ in. run	1 95	2 40	2 85	3 55	3 95	4 20	4 95	6 15	6 85	7 25	7 65	8 25				
1 $\frac{1}{2}$ in. Outlet, 1 $\frac{1}{2}$ or 2 in. run	2 10	2 70	3 35	4 00	4 65	5 25	5 85	6 50	7 60	8 00	8 50	9 50				
1 $\frac{1}{2}$ in. Outlet, 2 $\frac{1}{2}$ in. run	2 85	3 45	4 15	5 00	5 75	6 50	7 00	8 25	9 25	9 75	10 50	11 50				
1 $\frac{1}{2}$ in. Outlet, 3 in. run	3 15	3 80	4 60	5 50	6 25	7 25	7 75	9 00	10 00	10 75	11 50	12 75				
2 in. Outlet, 2 in. run	4 10	5 25	6 40	7 65	8 80	10 60	11 50	12 25	13 50	14 25	15 00	16 00				
2 in. Outlet, 2 $\frac{1}{2}$ in. run	4 50	5 75	7 00	8 50	9 75	11 75	12 75	13 50	15 00	15 75	16 50	17 50				
2 in. Outlet, 3 in. run	4 50	5 75	7 00	8 50	9 75	11 75	12 75	13 50	15 00	15 75	16 50	17 50				
2 in. Outlet, 3 $\frac{1}{2}$ in. run	5 00	6 25	7 75	9 25	10 75	13 00	14 00	15 00	16 50							
$\frac{3}{4}$ in. Hook Plates	8	16	21	24	28	34	40	45	50	56	68	72				
1 in. Hook Plates	9	18	23	26	32	38	48	59	65	70	85	1 00				
1 $\frac{1}{4}$ in. Hook Plates	10	21	27	32	41	52	68	80	90	1 20	1 35	1 40				
1 $\frac{1}{2}$ in. Hook Plates	15	28	43	58	72	88	1 10	1 25	1 40	1 55	1 65	1 90				
2 in. Hook Plates	22	43	65	90	1 15	1 35		2 25	2 50	2 75	3 00					
$\frac{3}{4}$ in. Expan. Hook Plates	12	23	34	45	55	65	77	90	1 05	1 25	1 45	1 65				
1 in. Expan. Hook Plates	15	25	35	50	60	70	80	95	1 10	1 35	1 55	1 70				
1 $\frac{1}{4}$ in. Expan. Hook Plates	17	27	40	60	70	80	90	1 15	1 30	1 50	1 70	2 00				
1 $\frac{1}{2}$ in. Expan. Hook Plates	25	40	60	75	90	1 00	1 25	1 50	1 75	2 00	2 25	2 50				
1 in. Ring Plates	16	28	41	50	62	72	96	1 00	1 20	1 30						
1 $\frac{1}{4}$ in. Ring Plates	21	35	50	62	75	1 10	1 25	1 40	1 70	1 85						

EXTRA HEAVY SCREWED FITTINGS
Working Steam Pressure 250 Pounds

Size	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Elbows	25	30	35	45	60	75	1 25	2 00	2 75	3 50	4 25	5 50	8 00	12 00	17 00	28 00	40 00
Elbows, Reducing			40	52	69	.86	1 44	2 30	3 16	4 02	4 90	6 32	9 20	13 80	19 55	32 20	46 00
Tees	40	45	55	70	90	1 15	1 80	3 00	4 25	5 50	6 75	8 25	12 00	18 00	25 00	42 00	60 00
Tees, Reducing			75	1 00	1 25	1 60	2 50	4 25	5 00	7 25	11 50	11 50	15 00	23 00	32 00	53 00	
Crosses			1 00	1 25	1 60	2 00	3 25	5 50	7 88	10 00	15 00	15 00	22 00				
Crosses, Reducing			1 15	1 44	1 84	2 30	3 74	6 32	9 05	11 50	17 25	17 25	25 30				
45° Elbows			45	55	70	90	1 50	2 50	3 50	4 50	5 50	6 75	9 75	14 50	21 00	35 00	
Y Branches			90	1 05	1 25	2 00	2 65	3 25	4 50	5 75	7 25						

For Right and Left Fittings add 15%

LONG SCREWS

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Standard Length	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9
Plain, Each	30	35	40	55	75	1 00	1 30	1 70	2 70	3 70	5 39	6 60
Galvanized, Each	35	40	50	66	1 00	1 25	1 60	2 10	3 10	4 70	6 50	7 75

EXTRA LONG LONG SCREWS—PLAIN

Length	$3\frac{1}{2}$	4	5	6	7	8	9	10	11	12
Size	30	32	34	36	38	40	42	44	46	48
$\frac{1}{4}$		35	37	40	42	44	46	48	50	52
$\frac{3}{8}$			42	44	46	48	50	52	54	56
$\frac{1}{2}$				64	68	72	76	80	84	88
$\frac{3}{4}$				79	83	87	91	95	99	1 03
1					1 04	1 08	1 12	1 16	1 20	1 24
$1\frac{1}{4}$					1 34	1 38	1 42	1 46	1 50	1 54
$1\frac{1}{2}$						1 80	1 90	2 00	2 10	2 20
2						2 80	3 00	3 20	3 40	3 60
$2\frac{1}{2}$						3 90	4 10	4 30	4 50	4 70
3							5 63	5 87	6 11	6 35
$3\frac{1}{2}$								7 00	7 40	7 80
4										

LOCKNUT NIPPLES

Not over 6 in. long

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Plain	50	50	55	65	70	90	95	1 10	1 50	1 75
Galvanized	65	65	75	80	1 00	1 15	1 25	1 45	2 10	2 50

LONG TURN SCREWED WATER FITTINGS

Diameter of Pipe	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Elbows, Fig. 30	32	40	55	80	1 20	2 25	3 25	3 50	5 50	6 50	8 75	13 00	17 00	30 00	40 00
Elbows, Fig. 30 Reducing	48	60	83	1 20	1 80	3 38	4 88	5 25	8 25	9 75	13 13	19 50	25 50	45 00	60 00
End Tees, Fig. 29	64	80	1 10	1 60	2 40	5 50	6 50	7 00	11 00	13 00	17 50	26 00	34 00	60 00	80 00
End Tees, Fig. 29 Reducing	96	1 20	1 65	2 40	3 60	7 75	9 75	10 50	16 50	19 50	26 25	39 00	51 00	90 00	120 00
Pitcher Tees, Fig. 28	48	60	82	1 20	1 80	3 40	4 90	5 25	8 25	9 75	13 25	19 50	25 50	45 00	60 00
Pitcher Tees, Fig. 28 Red'ng	72	90	1 23	1 80	2 70	5 10	7 35	7 88	12 38	14 63	19 88	29 25	38 25	67 50	90 00
Crosses, Fig. 31	85	1 10	1 50	2 15	3 20	6 00	8 75	9 50	15 00	17 50	24 00	35 00	45 00	80 00	107 00
Crosses, Fig. 31 Reducing	1 28	1 65	2 25	3 23	4 80	9 00	13 13	14 25	22 50	26 25	36 00	52 00	67 50	120 00	160 50

MALLEABLE IRON UNIONS

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Malleable Unions, Plain	18	18	20	22	27	33	46	58	75	1 55	2 10	3 65	4 35
Malleable Unions, Galvanized	27	27	30	33	40	50	70	90	1 15	2 35	3 15	5 50	6 50
Keystone Unions, Plain		20	24	28	35	40	56	80	95				
Keystone Unions, Galvanized		24	28	35	46	55	78	1 12	1 35				
Dart Unions, Plain		30	40	50	60	80	1 20	1 60	2 03	3 20	4 80		
Dart Unions, Galvanized		45	60	75	90	1 20	1 80	2 40	3 00	4 80	6 20		
American Unions, Plain		20	24	28	35	40	56	80	95	2 00	2 75		
American Unions, Galvanized		24	28	35	46	55	78	1 12	1 35	2 90	3 75		
American Unions, Tinned		30	33	45	55	65	90	1 40	1 55				
Kewanee Unions, Plain	18	19	22	27	40	48	66	80	1 14	2 10	2 65	4 30	5 50
Kewanee Unions, Galvanized	22	23	26	34	49	60	82	1 10	1 40	2 75	3 50	6 30	7 50
Jefferson Unions, Plain		30	40	50	60	80	1 20	1 60	2 00	3 20	4 80		
Jefferson Unions, Galvanized		45	60	75	90	1 20	1 80	2 40	3 00	4 80	6 20		
Style F, male and female, black	46	46	50	63	79	95	1 30	1 70	2 60	3 80	5 40		
Style F, male and female, galvanized	51	51	56	71	87	1 10	1 60	2 00	3 20	4 80	6 80		

CAST IRON FLANGES

Size of Pipe.	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12	14
Outside Diameter																				
3 inch	10	10																		
3½ inch	15	15	15	15	16															
4 inch	22	22	22	16	16															
4½ inch	25	25	25	25	25	22														
5 inch	35	35	30	30	30	30	35													
5½ inch	45	45	45	40	40	40	35	40												
6 inch	50	50	50	42	40	40	42	42	50											
6½ inch		65	60	60	60	55	50	50	50	65										
7 inch		75	75	75	70	70	62	62	62	75										
7½ inch		90	90	90	85	85	80	80	75	85	90									
8 inch	1 00	1 00	1 00	95	95	90	90	90	90	90	90									
8½ inch	1 25	1 25	1 25	1 15	1 15	1 10	1 10	1 10	1 10	1 00	1 00									
9 inch				1 35	1 35	1 30	1 25	1 15	1 15	1 15	1 15	1 15	1 40							
9½ inch					1 90	1 90	1 75	1 75	1 60	1 60	1 50	1 25	1 50	1 50						
10 inch					2 25	2 25	2 15	2 00	1 80	1 50	1 50	1 50	1 50	1 50						
11 inch							2 50	2 50	2 25	2 25	2 00	1 75	1 75	2 20						
12 inch								3 00	3 00	2 75	2 50	2 50	2 20	2 20	2 20	2 80				
13 inch									3 50	3 50	3 25	3 00	3 00	2 80	2 80	2 80				
14 inch									4 00	4 00	3 75	3 50	3 50	3 25			3 75	4 00		
15 inch															4 00	4 00	4 00	4 50		
16 inch															5 00	5 00	5 00	5 00	6 00	
17 inch															6 50	6 50	5 75	5 75	7 00	
18 inch															8 00	8 00	7 00	7 00	7 00	
19 inch																	7 50	7 50		
20 inch																		8 50	8 50	
21 inch																			9 50	
Floor Plates		6	6	8	11	14	16	24	30	35	42	50	60	75	90	1 15				
Ceiling Plates		11	13	16	18	23	27	36	50	55	68		95	1 25						

PIPE RINGS AND ROLLS

Size of Pipe	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Rings, each	2	3	3	4	5	6	8	12	15	25	40
Rolls, each		6	7	8	13	15	18	21	21	24	27

STANDARD FLANGES

Pipe Size	2½	3	3½	4	4½	5	6	7	8	9	10	12
Diameter of Flange	7	7½	8½	9	9¼	10	11	12½	13½	15	16	19
Flanges, Faced Only	1 40	1 60	1 80	2 15	2 50	2 80	3 20	4 35	5 00	6 75	7 75	10 50
Flanges, Faced and Drilled	2 00	2 25	2 50	3 00	3 35	3 65	4 00	5 75	6 50	8 25	9 25	12 50

EXTRA HEAVY FLANGES

Radius of Center	5	5½	5¾	6½	6¾	8½	9	9½	10½	11½	12	12½
Center to Face	6½	7¼	8¼	10¾	10¾	11¾	13	14½	18¼	21¼	24¾	31
Radius of Center	5½	5¾	6¾	9¾	9¾	11¾	13½	16½	19¾	22¾	28¼	
Size	2½	3	3½	4	4½	5	6	7	8	9	10	12
Faced	1 40	2 00	2 10	2 60	3 10	3 25	4 55	5 75	6 25	7 35	8 70	14 00
Faced and Drilled	2 00	2 60	2 85	3 85	4 35	4 75	6 25	7 60	8 10	9 40	11 00	17 50

LAG SCREW HOOKS

Length, Inches	3	4	5	6	7	8	9	10	11	12	13
3 in.	6 00	6 20	6 40	6 60	6 80	7 00	7 20	7 40	7 60	7 80	8 00
3½ in.	8 00	8 25	8 50	8 75	9 00	9 25	9 50	9 75	10 00	10 25	10 50
Length, Inches	14	15	16	17	18	19	20	21	22	23	24
4 in.	8 20	8 40	8 60	8 80	9 00	9 20	9 40	9 60	9 80	10 00	10 20
4½ in.	10 75	11 00	11 25	11 50	11 75	12 00	12 25	12 50	12 75	13 00	13 25

MALLEABLE IRON UNION ELBOWS AND TEES

Size	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Elbows, female	42	54	63	90	1 05	1 55	2 85
Elbows, male and female	48	62	72	1 05	1 20	1 80	3 30
Tees, female	45	57	70	95	1 15	1 70	3 20
Tees, male and female	52	65	80	1 10	1 30	1 95	3 70
Galvanized Elbows, female	63	81	95	1 35	1 58	2 35	4 30
Galvanized Elbows, male and female	72	93	1 08	1 60	1 80	2 70	4 95
Galvanized Tees, female	68	86	1 05	1 45	1 75	2 55	4 80
Galvanized Tees, male and female	78	1 00	1 20	1 65	1 95	2 95	5 55

“ WORCESTER ” PATTERN FLOOR AND CEILING PLATES

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Nickel plated, each	8	8	9	10	11	12	13	15

BEATON'S ADJUSTABLE FLOOR AND CEILING PLATES

Size	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Plain, each	14	14	18	20	24	28	43	60	90	125	160	200
Nickel plated, each	25	25	28	32	35	38	52	75	110	150	200	250

Russell's Patent Adjustable Floor and Ceiling Plates, same list

THE H. & B. PERFECTION FLOOR AND CEILING PLATES

Size	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Floor	10	11	12	13	15	30	50
Ceiling	25	28	32	35	38	52	75

FEE & MASON HANGERS

Size of pipe	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Figure 317 split ring, conc. screw, galvanized iron per 100	17 00	17 00	20 00	25 00	30 00	40 00	50 00
Figure 332 split ring, conc. screw, polished brass, each	34	34	36	40	55	80	110
Figure 332 split ring, conc. screw nickel plated	36	36	38	45	60	90	125
Figure 310 solid ring galvanized, per 100	6 50	6 50	7 00	8 00	9 00	12 00	16 00
Figure 331 polished brass, each	34	34	36	40	55	80	110
Figure 331 nickel plated, each	36	36	38	45	60	90	125

BRASS VALVES AND COCKS

Size of pipe	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Globe and angle valves	72	72	77	1 00	1 26	1 80	2 52	3 50	5 30	10 00	14 40
Globe vertical check valves		72	77	1 00	1 26	1 80	2 52	3 50	5 30	10 00	14 40
Globe horizontal check valves	65	65	70	90	1 15	1 60	2 25	3 15	4 75	9 00	13 00
Globe and angle safety valves	2 20	2 50	3 25	3 90	4 70	7 15	9 00	12 50	22 50	33 50	
Cross valves	1 25	1 25	1 50	2 00	2 50	3 50	5 00	8 00	16 00	24 00	
Steam cocks	85	85	1 00	1 25	1 70	2 35	3 70	4 85	7 30	14 50	22 50
Steam cocks three-way			2 50	3 00	3 75	5 75	7 15	11 00	18 75	26 00	
Air cocks, single thread, male tee handle	40	45	50	60							
Air cocks, double thread, male, tee handle	55	65	75	90							
Air cocks, double female thread, tee handle	65	70	85								
Air cocks, double female thread, lever handle	80	85	1 00								
Bib air cocks, tee handle	70	80	90	1 00							
Bib air cocks, lever handle	85	95	1 05	1 15							

IRON BODY STEAM VALVES (BRASS MOUNTED) AND IRON COCKS

	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	8	10	12
Globe and angle valves:															
Screwed			2 25	2 75	3 50	5 40	7 35	9 80							
Flanged			3 25	3 85	4 80	7 00	9 00	12 50							
With yoke, screwed						7 00	9 00	12 50	15 25	19 00	27 00	37 50	72 00	114 00	170 00
With yoke, flanged						8 60	10 75	15 00	18 50	22 50	31 00	42 00	77 00	123 00	187 00
Safety, screwed		3 50	4 00	5 00	5 80	7 80	13 25	17 25	23 00	28 75	41 50	57 75	132 00		
Safety, flanged			5 50	6 75	7 75	10 25	16 00	21 50	27 50	34 00	48 00	65 00	140 00		
Back press. valves, screwed					9 00	11 00	13 00	15 00	19 00	22 50	33 50	43 00	85 00	120 00	180 00
Back press. valves, flanged					10 50	12 75	15 00	17 50	22 00	26 00	37 00	47 00	90 00	130 00	200 00
Check valves, horiz. screwed			1 50	2 20	2 65	3 60	6 50	8 90	12 25	14 25	22 00	30 00	57 00	105 00	155 00
Check valves, horiz. flanged			2 50	3 25	4 00	5 25	8 25	11 50	15 00	18 00	26 00	35 00	62 00	115 00	175 00
Check valves, vert. screwed						7 00	9 50	12 50	17 00	21 00	33 00	40 00	73 00		
Check valves, vert. flanged						8 75	11 50	15 00	20 00	25 00	37 00	45 00	78 00		
Cross valves, screwed						6 50	9 00	12 50							
Cross valves, flanged						9 00	11 75	16 50							
Cross valves, with yoke scr'd						8 50	11 75	16 25	20 00	23 50	35 25	47 25	92 00	162 00	240 00
Cross valves, with yoke flange						11 00	14 50	20 00	25 00	28 50	41 00	54 00	100 00	175 00	265 00
Cocks, all iron, screwed	90	1 05	1 30	1 60	1 95	2 70	4 40	6 75	12 00	15 50	32 00	45 00			
Cocks, all iron, flanged			2 25	2 75	3 25	4 25	6 25	9 50	15 00	19 00	36 00	50 00			
Cocks, 3 way, all iron, scr'd	1 65	1 80	2 05	2 65	3 65	5 35	7 50	14 00	19 00	36 50	52 00				
Cocks, 3 way, all iron, flanged		3 75	4 25	5 25	7 00	9 00	12 75	20 00	26 00	44 00	60 00				

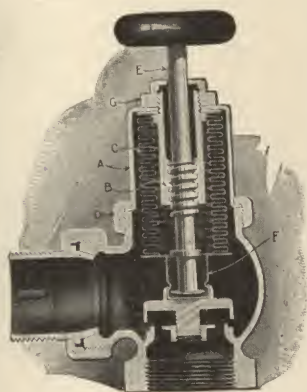
DECEMBER 1, 1899

ASBESTOS PACKED COCKS

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Brass-screwed	3 35	3 35	3 35	4 20	5 60	8 00	10 35	16 00	26 50	37 50				
Iron-screwed or flanged		1 45	1 60	2 10	2 50	3 50	4 75	7 00	12 00	18 00	27 00	30 00	45 00	60 00

RADIATOR VALVES & UNION ELBOWS

Rough Body Plated all over.



Size	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Screw stem, Jenkins disc, with union	3 80	4 75	6 40	8 10	13 10
Screw stem, Jenkins disc, without union	2 85	3 65	4 90	6 75	11 00
Screw stem, brass disc, with union	2 85	3 65	5 05	7 10	10 85
Screw stem, brass disc, without union	1 95	2 65	3 70	5 00	7 75
Quick opening water, with union	2 85	3 65	5 05	7 10	10 85
Quick opening water, without union	1 95	2 65	3 70	5 00	7 75
Wood wheel double gate valves, with union	3 75	4 65	6 10	7 85	12 10
Union elbows	2 00	2 50	3 20	4 00	7 00

SYLPHON PACKLESS RADIATOR VALVE

Size	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
N. P. Jenkins disc, with union angle	3 90	4 70	6 25	8 15	13 00
N. P. Jenkins disc, with union corner	4 25	5 15	6 95	8 95	14 25

*MALLEABLE PATTERN BRASS FITTINGS — ROUGH

Iron Pipe Thread

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows	12	17	21	28	35	50	85	1 10	1 50	3 50	4 50	7 00	10 00
Elbows, reducing or R. & I.		22	26	35	45	62	1 10	1 40	1 90	4 40	5 65	8 75	12 50
Elbows 45°			27	34	42	70	1 02	1 32	1 80	4 20	5 40	8 40	12 00
Elbows, drop				56	70	1 00	1 70						
Elbows, male and female				40	55	75	1 00	1 80	2 50	3 25			
Tees	15	20	30	40	50	75	1 00	1 30	1 75	4 00	5 50	9 00	13 00
Tees, reducing		25	38	50	63	95	1 25	1 65	2 20	5 00	6 90	11 25	16 25
Tees, drop or cock				60	80	1 00	1 50	2 00					
Crosses	30	30	40	50	60	80	1 50	2 00	3 50	5 00	7 00	10 00	14 50
Crosses, reducing		38	50	65	75	1 00	1 90	2 50	4 40	6 25	8 75	12 50	18 00
Couplings	10	14	16	25	37	50	60	90	1 35	2 40	3 50	5 00	6 00
Couplings, reducing		16	22	32	45	65	90	1 12	1 85	3 00	4 50		
Couplings, right and left		17	20	30	45	60	75	1 12	1 75	3 10	4 10		
Return bends, open pattern				75	1 00	1 75	3 00	3 75	6 00				
Return bends, close pattern				70	85	1 00	2 25	2 75	4 50				
Bushings — reducing one size		10	12	14	21	38	50	67	1 00	1 50	2 50	3 50	4 50
Caps. hex. semi-fin.	15	15	20	25	35	45	60	80	1 10	2 00	3 00	5 00	6 00
Plugs	9	10	12	15	20	28	40	50	90	1 25	2 50	3 00	4 00
Locknuts	10	10	12	15	20	30	45	70	95	1 50	2 75		
Nipples, close	12	15	20	25	30	40	60	90	1 25	2 50	3 50		
Nipples, shoulder	14	18	25	30	38	50	75	1 10	1 45	2 75	4 00		
Nipples, long, assorted	15	20	30	35	45	60	90	1 25	1 60	3 00	4 50		

*CAST IRON PATTERN BRASS FITTINGS — ROUGH

Iron Pipe Thread

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows	28	28	28	36	70	1 00	1 50	2 00	3 00	5 50	8 50	12 50	16 00
Elbows, reducing or R. & L.				32	42	80	1 15	1 72	2 30	3 45	6 30	9 75	
Elbows, 45°					43	84	1 20	1 80	2 40	3 60	6 60	10 20	
Tees				40	65	1 00	1 35	2 00	3 00	4 50	7 50	11 00	16 50
Tees, reducing				46	75	1 15	1 55	2 30	3 45	5 20	8 60	12 65	16 50
Crosses					90	1 30	1 80	2 75	4 00	5 25	9 00	14 00	
Crosses, reducing					1 04	1 50	2 10	3 15	4 60	6 00	10 35	16 00	
Couplings			26	41	67	90	1 12	1 60	2 10	3 25	5 85	7 40	9 50
Return bends, open pattern					75	1 00	1 75	3 00	3 75	6 00			
Return bends, close pattern					70	85	1 00	2 25	2 75	4 50			
Y branches					1 50	2 40	3 25	4 50	6 00	7 50	14 50	18 00	30 00
Union flanges, iron bolts					3 50	3 50	3 75	4 25	5 60	6 50	8 50	10 50	13 50
Flanged locknuts					20	30	40	60	90	1 25	2 50	3 50	
Solid plugs, large head					50	60	75	1 60	2 00	3 00	3 75	6 00	9 00

*Finished fittings, double rough list. Fittings cut right and left and reducing fittings, other than listed, 25 per cent advance. Fittings larger than listed, prices quoted from specifications. Tinned or nickel-plated fittings furnished to order.

Brass bolts for union flanges extra.

BRASS NIPPLES, CLOSE, SHOULDER AND LONG. Iron Pipe Thread

Size	Close	1½	2	2½	3	3½	4	4½	5	5½	6
¾	12	14	19	22	25	28	31	34	37	40	43
1	15	18	24	28	32	36	40	44	48	52	56
1¼	20	25	28	33	38	43	48	53	58	63	68
1½	25	30	33	39	45	51	57	63	69	75	81
2	30	39	46	53	60	67	74	81	88	95	
2½	40	49	58	67	76	85	94	1 03	1 12	1 21	
3	60		75	87	99	1 11	1 23	1 35	1 47	1 59	
3½	90			1 18	1 32	1 46	1 60	1 74	1 88	2 02	2 16
4	1 25			1 44	1 63	1 81	2 00	2 19	2 38	2 57	2 76
4½	2 50				3 06	3 34	3 62	4 18	4 46	4 74	5 02
5	3 50				4 30	4 70	5 10	5 50	5 90	6 30	6 70
5½	6 00						7 16	7 74	8 32	8 90	9 48
6	8 00						9 34	10 00	10 68	11 35	12 00
	12 00						13 75	14 57	15 39	16 21	17 03
	16 00							18 00	19 00	20 00	21 00
	20 00							21 40	22 80	24 20	25 60

Nipples longer than listed above at the same advance per inch.

Nipples cut right and left, 50 per cent advance on above list.

Locknut nipples, double above list. Extra heavy nipples, made to order.

MALLEABLE PATTERN BRASS FITTINGS. — ROUGH. Fine Thread

Size	5/8	¾	7/8	1	1¼	1½	2
Elbows	26	35	48	53	65	85	1 30
Elbows, 45°	35	40	55	60	75	96	1 40
Elbows, drop	60	60	70	80			
Tees	30	40	55	60	85	1 10	1 60
Tees, drop (single ear)	55	55	72	78	1 10	1 43	
Tees, cock (double ears)	60	60	81	87	1 20	1 55	
Crosses	45	60	85	90	1 25	1 65	2 00
Couplings	20	25	35	40	50	65	1 00
Couplings, reducing or right and left	30	38	53	60	68	95	
Plugs, close nipples, acorns and caps	20	25	35	40	45	65	1 00
Space nipples, assorted	30	35	45	55	60	90	
Bushings, flush	15	20	25	30	35	40	70
Bushings, hexagon	20	25	35	40	45	60	70
Locknuts	12	14	16	18	24	30	44
Acorn caps, with ears	35	40	50	60	70	95	
Return bends, close pattern	70	80	1 00	1 20			
Return bends, open pattern	82	92	1 20	1 50			
Return bends, close pattern, back outlet	90	1 10	1 25	1 40			
Return bends, open pattern, back outlet	1 20	1 40	1 55	2 00			

Finished fittings, double rough list. Tinned or nickel-plated fittings furnished to order.

BRASS GROUND JOINT UNIONS AND UNION FITTINGS. Iron Pipe Thread

Size	5/8	¾	7/8	1	1¼	1½	2	2½	3	3½	4
Williams Government Pattern with hex., rough	35	40	55	75	1 00	1 40	1 90	2 75	4 00	6 50	8 50
Williams Government Pattern with hex., finished	32	36	50	70	90	1 25	1 70	2 50	3 60	6 00	7 75
Regular unions, semi-finished	32	36	50	70	90	1 25	1 70	2 50	3 60	6 00	7 75
Extra heavy unions, semi-finished	90	1 10	1 40	1 60	1 85	3 00	4 00	5 25	7 50	10 00	15 00
Regular unions, rough	35	40	55	75	1 00	1 40	1 90	2 75	4 00	6 50	8 50
Union elbows	82	82	82	1 00	1 50	2 00	2 60	3 60	5 60		
Union tees	85	85	85	1 08	1 50	2 00	2 70	4 00	6 00		
Octagon pattern unions, finished	50	55	75	1 00	1 50	2 00	2 50	3 50	4 50		
Octagon pattern unions, rough	35	40	55	75	1 00	1 40	1 90	2 75	4 00	6 50	8 50

Fine Thread

Size	5/8	¾	7/8	1	1¼	1½	2
Regular unions, semi-finished	56	75	90	1 00	1 40	1 90	3 00
Union elbows	82	1 00	1 20	1 50	2 00	2 60	
Union tees	85	1 08	1 30	1 50	2 10	2 70	4 00

Reducing, male and female, hydraulic and extra heavy unions and union fittings made to order.

OCTOBER 1, 1902

BRASS SWING JOINTS, PENDANT COCKS, ETC.

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Ball nozzles, straight	9	14	20						
Ball nozzles, side	9	14	25						
Double centers		71	76	76				1	10
Eil burner cocks	36	38	43						
Lamp post cocks			46					49	55
Pendant cocks, straight	33	35	38	38	38	41	55		
Pendant cocks, side	41	41	43	43	43		60		
Pillar cocks	33	36	38				60	70	
Swing joints	36	38	41	43	46	52	60		
Swing joint with cock		73	79	79	79	79	1	00	
Swing pendant cock	60	60	63	65	68	68	90		
Universal swing joints	65	68	70	73	73	76			

GAS COCKS

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Gas Service Cocks, Sq. Hd., F. H., T. H.	75	75	85	95	1 15	1 50	2 25	3 10	5 00
Gas Service Cocks, with Check	90	90	1 00	1 10	1 35	1 70	2 50	3 45	5 50
M. & F. Gas Cocks, Sq. or T. Hd.		1 00	1 00	1 30	1 40	1 95	3 00	4 25	6 00
Female Boston Pattern Gas Cocks	90	90	1 00	1 10	1 35	1 70	2 50	3 45	5 50
M. & F. Boston Pattern Gas Cocks		1 15	1 15	1 45	1 60	2 15	3 25	4 60	6 50
*Gas Meter Cocks				1 30	1 40	1 95	3 00	4 25	6 00
*Union Meter Cocks				1 40	1 55	2 20	3 40	5 00	7 00
*Lock Gas Service Cocks				1 30	1 60	2 10	3 50	5 00	7 00
*Lock Gas Meter Cocks				1 40	1 75	2 30	3 85	5 50	7 75
*Lock Gas Union Meter Cocks				1 50	1 80	2 50	4 00	5 50	8 00

*If Boston Pattern, same advance over Regular List.

GAS COCK WRENCHES

No.	0	1	2	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6	6 $\frac{1}{2}$	7	7 $\frac{1}{2}$	8	8 $\frac{1}{2}$	9	10	11	12
Size Nut	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$\frac{15}{16}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Each	02	02	02	03 $\frac{1}{2}$	03 $\frac{1}{2}$	04 $\frac{1}{2}$	06 $\frac{1}{2}$	07 $\frac{1}{2}$	08	11 $\frac{1}{2}$	11 $\frac{1}{2}$	15 $\frac{1}{2}$	17	24	24	30	32	34	38

MAY 2, 1904

PATENT VALVES — BRASS

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4									
Walworth Gate	1	20	1	20	1	30	1	75	2	25	3	25	4	25	6	25	11	50	16	00		
Walworth Gate and Lever					2	30	2	95	3	65	4	85	6	05	8	25	13	75	18	50		
Ludlow					1	40	1	80	2	35	3	40	4	40	6	25	13	75	15	50		
Ludlow Sliding Stem and Lever					2	20	2	60	3	15	4	40	5	40	7	50	15	50	17	50		
Ludlow Flanged															7	40	11	00	18	75	21	50
Eddy					1	30	1	70	2	20	3	20	4	20	6	20	11	50	16	00		
Frink			80	1 00	1	25	1	75	2	50	3	35	4	60	7	00	14	00	20	00		
Jenkins', Check	1	10	1	20	1	30	1	90	2	60	3	60	5	00	7	50	13	50	20	50		
Jenkins', Globe	1	10	1	25	1	60	2	20	2	80	4	00	5	00	8	75	15	75	22	00		
Jenkins', Straightway Gate					2	00	2	50	3	25	4	25	5	25	7	50	14	00	20	00		
Locke's Renewable Disc	1	10	1	25	1	60	2	20	2	80	4	00	5	00	8	75	15	75				
Peet Pattern	1	25	1	40	1	40	1	80	2	50	3	50	5	00	7	50	14	00	19	50		
Straightway Swinging Check, Walworth	1	25	1	25	1	30	1	75	2	25	3	25	4	25	6	25	12	00	20	00		
Williams' Regrinding Swing Check	1	25	1	25	1	30	1	75	2	25	3	25	4	25	6	25	11	50	16	00		
Asbestos Disc, Globe	1	10	1	25	1	60	2	20	2	80	4	00	5	00	8	75	15	75	22	00		
Extra Discs for Jenkins' Valves			3	4	4	5	6	9	12	18	24	40	50	60								
Williams' Globe or Angle Valve, Standard	70	70	85	1 15	1 45	2 00	2 80	3 90	6 20	12 00	16 50	25 50	36 00									
Williams' Globe or Angle Valve, Ex. H'y		90	1 10	1 50	2 30	3 60	5 10	7 10	10 90	19 50	29 00	42 30	53 90									
Williams' Globe Check Valve, Standard	50	50	60	85	1 15	1 55	2 30	3 25	5 20	10 00	14 00											
Williams' Needle, Heavy Globe and Angle	65	75	85	1 60	2 00																	
Williams' Needle, Heavy Cross	95	1 25	1 50	2 40	3 00																	
Gasoline Needle Valve, Globe and Angle	65	75	85																			
Williams Gasoline Needle Valve, Cross	95	1 25	1 50																			
Kennedy Regular Gate Valves	1	25	1	40	1	40	1	80	2	50	3	50	5	00	7	50	14	00	20	00		
Kennedy Chapman Pattern Gate Valves					1	30	1	75	2	25	3	25	4	25	6	25	11	50	16	00		
Kennedy Quick Opening					2	80	3	25	4	50	6	00	8	00	12	00	22	00	30	00		
Kennedy Swinging Check			1	30	1	50	1	75	2	25	3	25	4	25	6	25	12	00	20	00		
Kennedy N. P. W. W. Gate Valve, with Union					3	10	3	75	4	65	6	10	7	85	12	10						
Chapman Gate Valves, List No. 1	1	25	1	25	1	35	1	65	2	30	2	80	3	75	5	75	9	65				
Chapman Gate Valves, List No. 4	1	35	1	35	1	50	1	85	2	55	3	40	5	00	6	70	11	35	16	50		
do. List No. 4, add for Sliding Stem and Lever		70	70	70	70	70	75	10	100	1 00	1 10	1 65										
Chapman Gate Valves with Drip					4	10	4	65	8	40	9	75	13	75								
Powell White Star Globe Valve, Standard	1	10	1	10	1	25	1	60	2	20	1	80	4	00	5	50	8	75	15	75	22	00

OCTOBER 1, 1902

PATENT VALVES, IRON BODIES, BRASS MOUNTED

Size	1½	2	2½	3	3½	4	5	6	7	8	10	12
Ludlow, Single Gate, screwed	5 00	6 00	8 75	11 00	15 00	16 25	23 75	28 00		40 00		
Ludlow, Single Gate, flanged	5 75	6 75	9 50	12 00	15 75	17 25	24 00	28 50		40 00	58 50	73 00
Ludlow Double Gate, screwed	6 00	7 00	10 25	12 25	16 50	18 00	25 00	30 50		45 00		
Ludlow, Double Gate, flanged	6 25	7 50	10 75	13 25	17 50	18 50	25 30	31 00		43 50	64 50	80 00
Ludlow, Double Gate, Hub		7 00		14 50		17 00		28 00		42 00	60 00	76 00
Ludlow, Check Valve — Hub				10 25		20 50	25 00	28 50		43 00	73 00	92 00
Walworth, screwed Bronze Seat	7 25	9 25	11 50	13 75	17 25	20 25	28 25	36 00		60 00		
Walworth, flanged			11 50	13 75	17 25	20 25	28 50	36 00		60 00	92 50	127 00
Walworth, Hub		10 00		11 50		19 50	25 00	30 00		48 25	77 00	101 00
Frink, screwed		6 75	10 00	13 50	21 50	25 50	31 00	51 00		97 00		
Frink, flanged		8 50	12 00	16 50	25 00	29 50	31 00	56 00		103 00		
Jenkins', Globe and Angle, screwed		10 00	12 00	16 75	19 50	24 00	40 00	48 00		90 00	130 00	185 00
Jenkins', Globe and Angle, flanged		11 75	14 00	18 50	21 50	26 00	42 00	50 00		90 00	130 00	185 00
Jenkins', Gate, screwed			12 00	15 00	18 00	21 00	30 00	36 00		62 00	85 00	
Jenkins', Gate flanged			13 00	16 00	19 00	22 50	32 00	38 00		62 00	85 00	
Locke's (Renewable Disc), screwed			12 00	16 75		24 00	40 00	48 00				
Locke's (Renewable Disc), flanged			14 00	18 50		26 00	42 00	50 00				
Peet, screwed		8 00	12 00	15 00	18 00	20 00	25 00	30 00		53 00	70 00	95 00
Peet, flanged			12 00	15 00	18 00	20 00	25 00	30 00		50 00	65 00	90 00
Straightway Check, Walworth	4 25	6 25	10 25	12 00	15 00	17 50	21 50	50 23		39 00		
Asbestos Disc, Globe, screwed		10 00	12 00	16 75	19 50	24 00	40 00	48 00		90 00		
Kennedy Gate Valves , sc'w'd or fl'ng'd	10 00	10 00	12 00	15 00	18 00	20 00	25 00	30 00	45 00	55 00	90 00	125 00
Kennedy Gate Valves, outside rising stem and yoke, screwed or flanged			20 00	23 00	28 00	33 00	46 00	55 00		90 00	135 00	170 00
" Quick Op'n'g Gate, sc'w'd or flang'd			18 00	22 00	25 00	27 00	34 00	40 00	57 00	69 00	110 00	150 00
" Swinging Check Valves, screwed			15 00	18 00	24 00	27 00	38 00	48 00	62 00	75 00	125 00	200 00
" Swinging Check Valves, flanged			17 00	21 00	27 00	30 00	42 00	52 00	67 00	80 00	135 00	220 00
Chapman Gate Valves , screwed			9 00	11 25	14 50	17 00	23 50	29 37 00		45 00	72 00	101 00
Chapman Gate, flanged			9 25	11 75	15 00	17 50	23 50	28 25	34 50	42 50	67 00	89 00
" " Slid'ng stem & lever extra			2 10	2 50	3 25	3 25	3 75	5 00	5 00	8 75	10 25	11 60
" " with Drip	6 75	9 25	12 50	15 50	20 00	24 75	32 75	42 00	53 50	63 50		

DECEMBER 4, 1905

SEAMLESS BRASS PIPE

Made to Correspond in Size with Iron Pipe

Same as Iron Size	½	¾	1	1¼	1½	2	2½	3	3½	4	4½	5	6
Weight per foot, ounces (about)	4½	7	10	14½									
Weight per foot, pounds (about)				1¼	1¾	2½	3	4	5¾	8½	11	13	14½
Price per pound													
Price, per foot	11	15	18	25	32	44	63	76	1 03	1 46	2 20	3 00	3 50

PLUMBER'S SEAMLESS BRASS TUBING

Outside diameter	5/8	¾	7/8	1	1¼	1½	1¾	2	2¼	2½
Price plain pipe, per foot	25	30	45	60	70	80	90	1 00	1 25	1 75
Weight per foot — pounds about .....	.485	.576	.667	.880	1.270	1.540	1.820	2.090		

BRASS STEAM WHISTLES AND VALVES

Diameter of bell	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8
Screwed for pipe			1½	2	2½	3	3½	4	4½	5	6	8	10
No. 1, plain, each			2 20	2 75	3 00	4 35	5 25	7 25	9 50	12 00	19 00	24 00	70 00
No. 3, with valve, each			3 10	3 75	4 00	5 50	6 50	8 50	11 50	15 00	22 50	33 00	95 00
Whistle valves	2 50	3 00	3 50	5 00	6 00	9 00	18 00	27 00					

EXPANSION JOINTS, BRASS AND IRON, 6 in. TRAVERSE

Size	½	¾	1	1¼	1½	2
Brass, screwed ends, eastern pattern	3 80	4 00	4 90	6 30	7 40	9 10
Size	2	2½	3	3½	4	8
Iron body expansion joints, screwed	11 00	13 00	17 50	25 00	30 00	40 00
Iron body expansion joints, flanged	18 00	20 00	25 00	35 00	40 00	50 00

PLAIN AND AUTOMATIC GREASE CUPS

Number	1	1½	2	2½	3	3½	4
Inside diameter	1	1¼	1½	1¾	2	2¼	2½
Size of pipe	½	¾	1	1¼	1½	1¾	2
Plain, each	50	75	1 00	1 50	2 50	3 50	4 25
Automatic, each	2 50	3 00	3 75	4 50	5 50	6 50	8 00

COMMON LUBRICATORS

Outside diameter	$\frac{3}{4}$	1	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	3
Size of pipe	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
Lubricators, each	1 75	2 00	2 20	2 40	2 60	2 90	3 25	3 75	4 75

PLAIN BRASS OIL CUPS

Number	00	0	$0\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	5	6	7	8	9
Outside diameter of cup	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$
Size of pipe	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$
Plain oil cups, each	25	30	35	40	50	60	90	1 25	1 75	2 25	2 75	3 50	4 00

MALLEABLE OILERS

Number	11	12	13
Per dozen	3 60	4 00	4 40

STEAM SWING JOINTS

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished, each	1 25	1 50	2 00	2 75	4 00	5 00	7 00	10 00
Rough, each		1 25	1 75	2 40	3 50	4 50	6 25	9 00

FUSIBLE PLUGS

Size	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, each, Short Pattern	60	75	1 00	1 25	1 75	2 50
Price, each, Long Pattern, Mass. Standard	1 10	1 50	1 75	2 40		

WATER GAUGES

Number	Rough, Iron Wheels. 00	Rough Iron Wheels. 0	Finished Body, Wood Wheels. $0\frac{1}{2}$	Finished Body, Wood Wheels. 1	Finished Body, Wood Wheels. $1\frac{1}{2}$	Finished Body Wood Wheels. 2
Thread cut, iron pipe size	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$ or $\frac{3}{4}$
Scotch glass tube	$\frac{5}{8}$ x 12	$\frac{5}{8}$ x 12	$\frac{5}{8}$ x 12	$\frac{5}{8}$ x 12	$\frac{5}{8}$ x 12	$\frac{1}{2}$ or $\frac{3}{4}$ x 15
Price, each	3 00	4 25	5 00	6 50	7 00	7 50

COMPRESSION GAUGE COCKS, PATENT WOOD WHEEL

Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Compression gauge cocks, wood wheel	1 10	1 20	1 35
Compression gauge cocks, wood wheel with stuff box	1 35	1 50	1 70
Ball gauge cocks, iron balls		1 00	1 00

WATER GAUGE COLUMNS

Number	1	2	3	4	5
Diameter of body	$2\frac{1}{4}$	$2\frac{3}{4}$	$3\frac{1}{4}$	$3\frac{1}{4}$	$3\frac{1}{4}$
Length of body	12	15	18	22	20
Length between centers	10	12	15	18	14
Price, each	1 25	1 50	2 50	3 00	3 00

STEAM GAUGES, "BOURDON" PATENT

Size of dial	3	$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{3}{4}$	$8\frac{1}{2}$	10	12
Iron case	6 00	7 00	8 00	8 00	10 00	13 00	16 00	22 00	32 00	50 00
Brass case	8 00	9 00	10 00	11 00	12 00	16 00	20 00	30 00	40 00	75 00
Extra for nickel plating ring, net	15	18	20	20	25	50	60	75	1 00	1 50
Extra for nickel case, net	60	75	1 00	1 00	1 25	1 50	2 00	2 50	3 00	4 00

STEAM GAUGE COCK

Male and female, tee handle, $\frac{1}{4}$ inch	75
Female, tee handle, $\frac{1}{4}$ inch	75

SCOTCH GLASS TUBES FOR WATER GAUGES

Length	10	11	12	13	14	15	16	17	18	19	20	22	24	30	36	48	60	72
$\frac{1}{8}$ inch	25	27	30	32	35	37	40	42	45	47	50	55	60	75	90	1 21	1 51	1 82
$\frac{1}{4}$ inch	25	27	30	32	35	37	40	42	45	47	50	55	60	75	90	1 21	1 51	1 82
$\frac{3}{8}$ inch	30	33	36	40	43	46	49	52	55	59	62	68	74	93	1 12	1 50	1 88	2 26
$\frac{1}{2}$ inch	42	47	51	55	59	63	68	72	76	80	85	93	1 01	1 27	1 52	2 03	2 54	3 04
1 inch	51	56	61	66	71	76	81	86	91	96	1 01	1 12	1 22	1 52	1 83	2 43	3 04	3 65

HANCOCK STATIONARY INSPIRATOR

No.	7½	8¾	10	12½	15	17½	20	22½	25	30	35	40	45	50
Capacity gals. pr. hr. }	60	90	120	220	300	420	540	720	900	1260	1740	2230	2820	3460
60 lbs. press. 4 ft. l'f }	6	12	16	30	40	56	72	96	120	168	230	298	376	464
Maximum h. p.	3/8	1 1/2	1 3/8	3 1/2	3 1/2	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2 1/2
Suction and discharge ..	3/8	1 1/2	1 3/8	3 1/2	3 1/2	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2 1/2
Steam	3/8	1 1/2	1 3/8	3 1/2	3 1/2	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2 1/2
Each	16 00	18 00	20 00	25 00	30 00	40 00	45 00	55 00	60 00	75 00	90 00	110 00	125 00	150 00

PENBERTHY INJECTORS

Number	00	A	AA	B	BB	C	CC	D	DD	E	EE	F	FF
Size pipe	3/8	1/2	1/2	3/4	3/4	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2	2
Capacity per h'r in gal. 1 to }	80	120	165	250	340	475	575	750	920	1300	1740	2270	2800
6 ft. lift, 45 to 75 lbs. press. }	55	70	90	135	165	300	350	400	500	700	900	1100	1400
Horse power	4	8	15	20	30	40	60	72	93	120	160	220	290
	to	to	to	to	to	to	to	to	to	to	to	to	to
	8	15	20	30	40	60	72	93	120	160	220	290	350
Price, each.....	16 00	18 00	20 00	25 00	30 00	40 00	45 00	55 00	60 00	75 00	90 00	110 00	125 00

THE "NASON" AND "SIDELUG" STEAM TRAPS

Sizes, Capacity, and List Prices

Number of Steam Trap	1	2	3	4	5
Size of pipe connections, inches	1/2	3/4	1	1 1/4	1 1/2
Drains, feet of 1 inch pipe	1050	2700	4200	6000	10500
Price, Nason	16 00	20 00	27 50	42 50	70 00
Price, Sidelug	16 85	21 30	29 25	45 50	74 75

STEAM TRAPS (Walworth Manufacturing Co.'s Pattern)

Number	0	1	2	3	4
Outlet and inlet,— iron pipe size	1/2	3/4	1	1 1/4	1 1/2
Condensing capacity, in feet of 1 inch pipe.....	500	1500	2500	4500	6000
Price, each.....	16 00	20 00	28 00	35 00	65 00

HAWES' STEAM TRAP

Number	00	1	2	3	4	5
Tapped for iron pipe, size	1/4	1/2	3/4	1	1 1/4	1 1/2
Drains, feet of 1 inch pipe	100	500	1000	2000	4000	20000
Price, each.....	6 00	11 00	16 00	21 00	26 00	50 00

KIELEY STANDARD STEAM TRAPS

HIGH PRESSURE—For Pressures Ranging from 30 to 125 Pounds Per Square Inch

Size Nos.	Price Each	Size Inlet and Outlet Connections	Capacity Lineal Feet 1 inch Pipe	Capacity Sq. Feet Radiation	Capacity Lbs. Water Per Hour
1	25 00	3/4	4,000	1,300	500
2	35 00	1	6,000	2,000	725
3	45 00	1 1/4	10,000	3,300	1,200
4	60 00	1 1/2	15,000	5,000	2,000
5	80 00	2	25,000	8,300	3,000
6	100 00	2 1/2	35,000	11,500	4,000
7	125 00	3	50,000	16,500	6,000

LOW PRESSURE—For Pressures Ranging from 1 to 30 Pounds Per Square Inch

Size Nos.	Price Each	Size Inlet and Outlet Connections	Capacity Lineal Feet 1 inch Pipe	Capacity Sq. Feet Radiation	Capacity Lbs. Water Per Hour
1	25 00	3/4	4,000	1,300	500
2	35 00	1	6,000	2,000	725
3	45 00	1 1/4	10,000	3,300	1,200
4	60 00	1 1/2	15,000	5,000	2,000
5	80 00	2	25,000	8,300	3,000
6	100 00	2 1/2	35,000	11,500	4,000
7	125 00	3	50,000	16,500	6,000

ANDERSON STEAM TRAPS

No.	1	2	3	4	5	6
Size Connection	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Drains, feet 1 inch pipe	1500	2500	4000	7000	10000	15000
List	20 50	22 50	28 00	35 00	50 00	70 00

THE VANCE STEAM TRAP

List Price — Capacities

Number	Size of Inlet	Size of Outlet	CLASS "A" Gallons per hour	CLASS "B" Lineal feet of 1 inch pipe	CLASS "C" Lineal feet of 1 inch pipe	List Prices
1	$\frac{3}{4}$ in.	$\frac{3}{4}$ in.	800	12,000	5,000	21 30
2	1 in.	1 in.	1,000	18,000	9,000	29 25
3	$1\frac{1}{4}$ in.	$1\frac{1}{4}$ in.	1,250	24,000	12,000	45 50
4	$1\frac{1}{2}$ in.	$1\frac{1}{2}$ in.	1,500	36,000	18,000	74 75
5	2 in.	2 in.	1,800	43,000	24,000	90 00
CLASS "A" For Pressures 100 to 250 Lbs.			CLASS "B" For Pressures 20 to 100 Lbs.		CLASS "C" For Pressures 1 to 20 Lbs.	

SPECIAL TRAPS

Special $1\frac{1}{2}$ inch Inlet Valve Opening 1 inch, list	125 00
Special 2 inch Inlet, Valve Opening $1\frac{1}{8}$ inch, list	150 00

THE STERLING STEAM TRAP

This trap will work well at any pressure.

The ingenious combination of balanced float, and vertical valve dropping from its seat overcomes the friction found in all other float traps, and the obvious result is greater discharge capacity, with elimination of wire drawing in valve. Valve and seat are government metal and always under water seal.

Pressure 0 to 30 Lbs.

Series No. 1

Size No.	1	2	3	4	5	6
Pipe Connection, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Condensation in lbs. per hour	2,300	3,900	5,500	7,800	11,000	21,000
Lineal feet of 1 inch pipe	5,500	8,500	15,000	20,000	30,000	50,000
Weight, lbs.	70	85	95	105	120	.....
Dimensions, inches	12x11x9	14x13x10	16x14x10	17x15x11	19x18x12	.....
Price	22 50	27 00	33 00	48 00	60 00	96 00

Pressure 0 to 150 Lbs.

Series No. 2

Size No.	21	22	23	24	25	26
Pipe Connection, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Condensation in lbs. per hour	2,200	3,800	5,400	7,500	10,500	20,000
Lineal feet of 1 inch pipe	5,000	8,000	14,000	19,000	29,000	50,000
Weight, lbs.	70	85	95	105	120	.....
Dimensions, inches	12x11x9	14x13x10	16x14x10	17x15x11	19x18x12	.....
Price	22 50	27 00	33 00	48 00	60 00	96 00

Traps working on back pressure should have a check valve on discharge pipe. We make a special series for extra high pressure.

JUNE 1, 1904

BOILER FLUE-BRUSHES AND SCRAPERS

In ordering Brushes, give outside diameter of Tubes

Outside diam. of Tubes, inches	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{2}$	5	6
Steel wire, tinned	60	60	65	70	80	90	1 00	1 05	1 15	1 22	.....	1 40	1 60	1 75	2 10
Steel wire, black	50	50	50	50	50	50	55	60	65	70	.....	80	90	1 00	1 20
Engineer's Favorite .....	.....	.....	2 00	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	5 00	6 25	7 50
Abram's	55	cts.	per	in.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rice's steel wire	50	50	50	50	50	50	55	60	65	70	.....	80	90	1 00	1 20
National	2 00	2 00	2 00	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	4 50	5 00	7 50
Elastic .....	.....	1 50	1 75	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	4 50	5 00	6 00
Ingalls' .....	.....	.....	.....	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	4 50	5 00	6 00
Christoffel's Elliptical	2 00	2 00	2 00	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	5 00	6 25	7 50
Christoffel's Coil	1 00	1 00	1 00	1 10	1 20	1 30	1 40	1 50	1 65	1 75	1 90	2 00	3 38	3 75	4 50
Whalebone	75	75	90	90	1 00	1 00	2 15	1 15	1 25	1 25	1 35	1 35	.....	.....	.....
Perfect	2 00	2 00	2 00	2 00	2 25	2 50	2 75	3 00	3 25	3 50	3 75	4 00	5 00	6 00	6 00

CURTIS'S PRESSURE REGULATOR FOR STEAM AND WATER

Size of pipe	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4	5	6
Price, each.....	22 00	22 00	28 00	35 00	44 00	57 00	72 00	100 00	135 00	180 00

The Lock-up Attachment, \$3.00 extra

MASON ALL BRONZE STANDARD REDUCING VALVE

Suitable for 300 pounds initial pressure

Size of Pipe	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Price, each.....	18 00	18 00	22 00	28 00	35 00	44 00
For reduced pressures below 5 lbs.	30 00	30 00	35 00	37 50	44 00	53 50

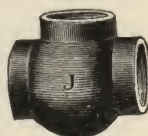
RAILING FITTINGS



700



701



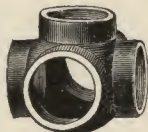
702



703



704



705



706



707

Size	MALLEABLE FITTINGS							POLISHED BRASS FITTINGS						
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
No. 700. Ell	15	18	20	35	45	72	1 00	1 50	40	60	80	1 20	1 60	2 20
No. 701. Ell, side outlet	20	23	25	40	50	80	1 15	1 70	75	1 00	1 45	1 65	2 05	2 90
Ell, 45°	20	23	30	45	55	90					1 50	1 70	2 15	3 00
No. 702. Tee	20	23	25	40	50	75	1 20	1 90	60	85	1 10	1 70	2 00	2 75
No. 703. Tee, side outlet	30	33	35	45	55	90	1 40	2 15	1 05	1 25	1 50	2 00	2 30	3 25
Tee, 45°	30	33	40	50	60	95					1 55	2 05	2 40	3 35
Cross, 45°	30	33	45	55	70	1 15					1 60	2 20	2 60	3 40
No. 704. Cross	30	33	35	45	58	1 00	1 50	2 25	1 05	1 25	1 50	2 00	2 40	3 25
No. 705. Cross, side outlet	35	38	40	50	65	1 35	1 75	2 60	1 20	1 45	1 70	2 12	2 60	3 50
No. 706. Floor flange, plain	14	15	15	20	28	30	50	75		35	40	70	95	1 30
No. 707. Acorn Ornament	16	18	20	25	35	90	1 00	1 50	40	65	80	90	1 20	2 50
Gate center piece			1 00	1 50										
Stair landing cross				1 25	1 60	2 40								
Stair landing tee				1 10	1 50	2 15								
Stair hand-rail tee		45	65	1 00	1 15									
Stair hand-rail cross		65	80	1 20	1 35									
Ornamental coupling			25	40										
Foot-rail bracket	40	50	70	80	1 00	1 25			2 50	2 80	3 35	3 70	4 00	5 00
Foot and hand-rail bracket	40	40	50	60	90	1 15			2 25	2 25	2 40	2 75	3 60	4 25
Stair hand-rail bracket				50	50	50								
Hinge for pipe gate	35	40	45	55	80	1 00			90	1 30	1 50	1 90	2 25	3 25
Ornamental hand-rail end				40	50	75								
Pipe gate latch			65	65	65	65								
End for foot-rail	15	15	20	25	30	40			60	60	80	1 00	2 20	1 75
Scroll ornament, 50 cents each														
Loafer cushion, 18 inches long			30	30	30	30								
Round railing flanges	17	20	22	35	36	55	80	1 00						

NOTES

For galvanized railing fittings, double the list prices for same fittings plain.

As these fittings do not need to be steam or water tight, a sufficiently clean thread to screw up well and make a good job can be made by a left hand tap into any outlet running tapped right hand.

REDUCING RAILING FITTINGS

Size	IRON FITTINGS				POLISHED BRASS FITTINGS			
	1x ³ / ₄	1 ¹ / ₄ x1	1 ¹ / ₂ x1	2x1 ¹ / ₄	1x ³ / ₄	1 ¹ / ₄ x1	1 ¹ / ₂ x1	2x1 ¹ / ₄
Ell, reducing	25	44	56	90	1 00	1 50	2 00	2 75
Ell, side outlet reducing	31	50	62	1 00	1 80	2 06	2 55	3 62
Tee, reduced on run	31	50	62	1 00	1 37	2 12	2 50	3 45
Tee, reduced at side	31	50	62	1 00	1 37	2 12	2 50	3 45
Side Outlet Tee, reduced at 3 outlets	44	56	70	1 12	1 87	2 50	2 87	4 05
Side Outlet Tee, reduced at 2 outlets	44	56	70	1 12	1 87	2 50	2 87	4 05
Cross, reducing	44	56	75	1 25	1 87	2 50	3 00	4 05

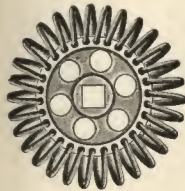
For galvanized railing fittings, double the list prices for same fittings plain. Our regular patterns of railing fittings are counterbored, so that when the pipe is screwed up, no threads are visible.
Can supply reducing railing fittings up to 3 inches in size.

IRON RAILING FLANGES

Pipe	³ / ₈	¹ / ₂	³ / ₄	1	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₂	2	2	2 ¹ / ₂	3
Diameter	3	3	3 ¹ / ₂	4	4	5	5	5	6	7	7 ¹ / ₂
Price, each	14	15	18	22	25	35	36	45	55	80	1 00
Size pipe, inches				¹ / ₂	³ / ₄	1	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₂	2	2
Diameter, inches				3	3 ¹ / ₂	4	4	5	5	5	6
List, each				50	63	71	83	1 05	1 10	1 20	1 40

PROUTY WIRE VALVE WHEELS

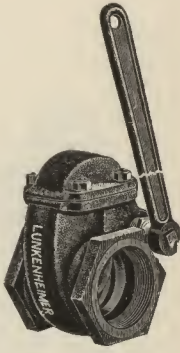
Size	¹ / ₈	¹ / ₄	³ / ₈	¹ / ₂	³ / ₄	1	1 ¹ / ₄	1 ¹ / ₂	2	2 ¹ / ₂	3	4	4 ¹ / ₂
Outside diameter of wheel	1 ¹ / ₂	2	2	2 ³ / ₈	2 ⁵ / ₈	3	3 ¹ / ₄	3 ¹ / ₂	4	4 ¹ / ₂	5 ¹ / ₄	6 ³ / ₄	7 ¹ / ₂
List, each	12	12	12	12	14	16	20	25	30	65	90	1 30	1 50



CLARK'S DAMPER REGULATORS

Number	1	2	3
For boilers, horse power	5	20	30 and larger
Each	10 00	15 00	25 00
Rubber diaphragms, each	40	60	1 25

MEDIUM PATTERN LEVER THROTTLE VALVE
Steam Metal Bronze



Size	¹ / ₂	³ / ₄	1	1 ¹ / ₄	1 ¹ / ₂	2	2 ¹ / ₂	3
Each	1 60	1 80	2 50	3 50	5 00	7 50	13 50	19

Iron Body — Bronze Trimmings

Size	2	2 ¹ / ₂	3	3 ¹ / ₂	4	4 ¹ / ₂	5	6	7	8
Each	7 00	12 00	15 00	18 00	21 00	25 00	30 00	35 00	50 00	65 00

The Medium Throttle Valve is designed for pressures up to 100 pounds. The Heavy, built on the same lines, is for pressures up to 175 pounds.

STANDARD SIZES, DETAILS, AND DIMENSIONS OF THE NATIONAL FEED WATER HEATER

No.	Horsepower	Diameter of Feed Pipe Inches	Diameter of Exhaust Pipe Inches	Outside Dimensions of Heater		Weight Lbs.	Price -
				Height Inches	Diameter Inches		
.05	5	$\frac{1}{2}$	2	10	7	35	20 00
1	10	$\frac{1}{2}$	2	12	11	65	25 00
$1\frac{1}{2}$	15	$\frac{1}{2}$	$2\frac{1}{2}$	17	11	80	35 00
2	20	$\frac{3}{4}$	$2\frac{1}{2}$	18	16	180	50 00
$2\frac{1}{2}$	25	1	3	20	19	270	60 00
3	30	1	4	34	20	350	75 00
4	40	1	4	36	20	390	90 00
5	50	1	4	41	20	420	110 00
6	60	1	4	46	20	475	130 00
8	80	1	4	51	20	515	160 00
10	100	$1\frac{1}{4}$	5	56	22	800	180 00
12	125	$1\frac{1}{2}$	5	56	22	850	210 00
15	150	$1\frac{1}{2}$	8	60	26	1,150	250 00
20	200	2	8	70	26	1,300	325 00
25	250	2	8	76	26	1,450	400 00
30	300	2	8	84	26	1,650	500 00
40	400	$2\frac{1}{2}$	10	88	36	1,900	600 00
50	500	$2\frac{1}{2}$	10	102	36	2,200	750 00
60	600	3	12	101	42	2,800	900 00
70	700	3	12	105	42	3,000	1,050 00
80	800	3	12	111	42	3,200	1,200 00
100	1,000	4	18	117	56	5,100	1,500 00
125	1,250	4	18	133	56	5,600	1,800 00
150	1,500	4	18	143	56	5,900	2,100 00
200	2,000	5	18	138	66	9,400	2,800 00
250	2,500	5	18	153	66	10,500	3,500 00
300	3,000	5	24	170	66	11,500	4,200 00
400	4,000	6	24	198	66	13,500	5,600 00
500	5,000	8	24	225	66	15,500	7,000 00

Sizes Nos. 1 to $2\frac{1}{2}$ have exhaust inlet and outlet in top head. Sizes No. 05, No. 3 and above have exhaust inlet in button and outlet in top heads, unless ordered different. Size of exhaust can be varied to suit requirements. Two or more exhausts in bottom head, if necessary. Shells Nos. 05 to 30 are cast iron.
Numbers 100 to 500 made with outside feed connections at same list price.
The heights from No. 3 to No. 500 include legs; no legs below No. 3.

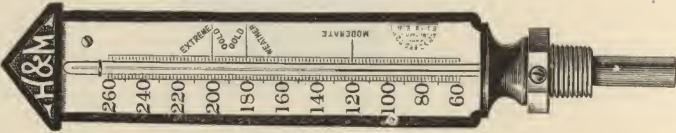
Low Pressure Damper Regulators, each	4 50
Rubber diaphragms, each	7 50

Boiler Pumps. $1\frac{1}{2}$ in., 15.00; 2 in., 20.00; $2\frac{1}{2}$ in., 25.00; 3 in., 35.00.
Glue Heaters. With 5 holes and pipes, complete, 20.00. With 2 holes, double, 10.00.
Glue Heaters. With 1 hole, single, small, 1.50; large, 3.00.
Glue and Paste Kettles. Double cased bolted, No. 1, 12.00; No. 2, 24.00.
Hair Felting. $\frac{1}{4}$ in. thick. 4 cents; $\frac{1}{2}$ in. $4\frac{1}{2}$ cents; $\frac{3}{4}$ in. $5\frac{1}{2}$ cents; 1 in. $6\frac{1}{2}$ cents per sq. foot.

HOT WATER EXPANSION TANKS, GALVANIZED

Gallons.....	8	10	12	15	18	20	24	26	32	42
Size, inches	10x20	12x20	12x24	12x30	12x36	14x30	14x36	16x30	16x36	16x42
Close tank work	7 50	8 00	8 50	9 00	9 50	12 50	13 00	14 00	15 00	16 50
Special Gauge for Expansion Tank, price, each										1 50

HOT WATER THERMOMETERS
SEPARABLE MERCURY BATH



Straight, each	2 00	Angle, each	2 50
----------------------	------	-------------------	------

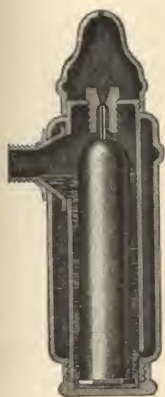
CAST IRON TWIN ELLS

$1\times\frac{3}{4}$	38	$2\times1\frac{1}{2}$	90	4×3	3 75
$1\frac{1}{4}\times1$	52	$2\frac{1}{2}\times2$	1 50	$5\times3\frac{1}{2}$	6 75
$1\frac{1}{2}\times1\frac{1}{4}$	68	$3\times2\frac{1}{2}$	2 25	5×4	6 75

The Allen Automatic Air Valve

Made Entirely of Metal.

No expansion Post, Ring, or Spring.



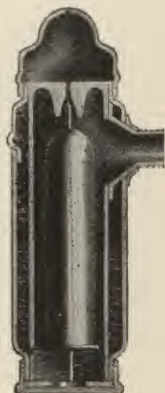
NO valve now on the market shows better results under continuous usage. Its long-lasting qualities especially commend it to the Trade. Valve troubles are needless. Try the Allen Automatic Air Valve

EACH, \$1.00

THE NORWALL AUTOMATIC AIR VALVE

AN automatic valve operating solely by the heat acting directly on the water and air. Made entirely of metal. No expansion post, ring, spring, or packing. The action is quick, direct, and effective. It vents every section in the radiator instantly and continuously. Requires no adjustment. Easily cleaned. Cannot be tampered with

EACH, \$1.30

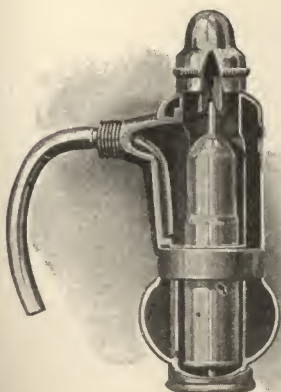


The Norwall Siphon Air Valve

WILL automatically vent any radiator which can be vented manually by a pet cock, of the last vestige of air. Every section is rendered hot where the Norwall Siphon Air Valve is used.

This operation is entirely automatic. The valve has no expansion post, but depends upon expansion and contraction by heat acting directly on the air and water for its sole motive force.

LIST PRICE, EACH, \$1.70

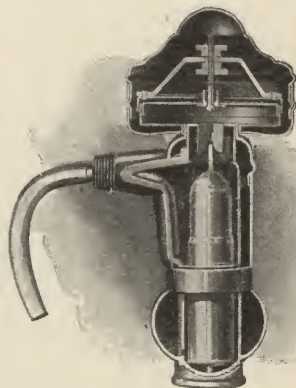


The Norwall Automatic Air and Vacuum Valve

IT frequently happens that a radiator, while venting, "works water," and under this condition the water surges against the air valve. The "Norwall" Automatic Air and Vacuum Valve, while freely venting the air from the radiator instantly closes against water and remains closed as long as water remains against it. But the instant water in the radiator falls away from the valve the siphoning connection to the valve automatically discharges the surplus water back in the radiator and the valve recommences venting.

The "Norwall" Automatic Air and Vacuum Valves can be used on any low-pressure steam heating apparatus, old or new, and their use, particularly in conjunction with the Norwall Packless Radiator Valve, insures for the user maximum heating comfort with a minimum fuel expense.

LIST PRICE, EACH, \$4.00



"RIVAL" AUTOMATIC AIR VALVE

To meet the demand for a dependable expansion automatic air valve at a low price.

LIST PRICE, EACH, \$1.15

TRADE PRICE LIST OF CAST IRON SOIL PIPE AND FITTINGS
Adopted May 24, 1907

STANDARD

EXTRA HEAVY

Sizes	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.
Single Hub Pipe, per foot	26	32	42	60	75	1 00	1 25	40	65	85	1 15	1 35	1 75	2 25
Double Hub Pipe, per 5 foot length	1 60	1 90	2 40	3 50	4 50	5 75	7 25	2 30	3 55	4 55	6 25	7 50	9 75	12 75

STANDARD

EXTRA HEAVY

1-4, 1-5, 1-6, 1-8, and 1-16 Bends	45	70	1 00	1 75	2 25	3 00	4 00	65	1 00	1 30	2 20	3 25	4 00	5 00
Double Hub—1-4, 1-8, and 1-16 Bends	75	1 00	1 30	2 25	2 75	3 75	5 00	85	1 30	1 60	2 70	3 25	4 00	5 00
Quarter Bends, 2" heel or side inlet	1 45	1 70	2 00	2 75	3 25	3 50	4 25	1 55	2 00	2 30	3 20	4 25	5 00	6 00
Quarter Bends, 3" heel or side inlet		1 95	2 25	3 00	3 50	3 75	4 50		2 25	2 55	3 45	4 50	5 00	6 00
Quarter Bends, 4" heel or side inlet			2 50	3 25	3 75	3 75	4 50			2 80	3 70	4 75	5 00	6 00
Quarter Bends, with Foot Rest	95	1 45	2 00	3 00	3 75	3 75	4 50	1 05	1 75	2 30	3 45	4 75	5 00	6 00
Double Hub Quarter Bends with 2" heel inlet			2 00	3 00	3 75	3 75	4 50	1 85	2 30	2 60	3 70	4 25	5 00	6 00
Double Hub Quarter Bends with 3" heel inlet	1 75	2 25	2 55	3 50	4 00	4 00	4 25		2 55	2 85	3 95	4 50	5 00	6 00
Double Hub Quarter Bends with 4" heel inlet			2 80	3 75	4 25	4 25	4 50			3 10	4 20	4 75	5 00	6 00
Lg. Quar. Bends with hd. hole and ft. rest, lgh. 18"	2 65	3 50	4 50	6 25	7 75	7 75		3 25	4 50	6 00	8 00	9 75	10 00	12 00
Double Spigot Long Quarter Bends 12" inches	85							1 25						
Double Spigot Long Quarter Bends 18" inches	1 10	2 10	2 80	5 50	7 00	7 00		1 70	3 00	3 50	7 25	9 00	10 00	12 00
Long Quarter Bends with foot rest 18" inches	1 90	2 75	3 75	5 50	7 00	7 00		2 50	3 75	5 25	7 25	9 00	10 00	12 00
Long Quarter and Eighth Bends 12" in. clear	1 10	1 60	2 25	3 50	4 75	4 75	7 50	1 55	2 30	3 50	5 00	6 50	7 50	10 00
Long Quarter and Eighth Bends 18" in. clear	1 40	2 00	2 75	4 25	5 50	5 50		2 00	3 00	4 25	6 00	7 50	8 50	10 00
Long Quarter and Eighth Bends 24" in. clear	1 80	2 75	3 50	5 25	6 50	6 50		2 50	4 00	5 25	7 25	8 75	10 00	12 00
Short Sweep Bends	1 05	1 15	1 60	2 50	3 00	3 00	3 25	1 55	1 85	2 15	3 20	4 50	5 00	6 00
Sanitary Bends	1 20	1 50	2 00	3 00	4 00	4 00	5 00	1 80	2 00	2 75	4 00	5 25	6 00	7 50
Return Bends, Single Hub	80	1 55	2 15	3 15	3 75	3 75		1 05	1 80	2 65	4 15	5 25	6 00	7 50
Return Bends, Double Hub	1 10	1 85	2 45	3 65	4 25	4 25		1 35	2 10	2 95	4 65	5 75	6 00	7 50
Combination Y and Eighth Bends	1 50	2 00	3 00					2 00	3 00	4 50				
Double Combination Y and Eighth Bends	3 35								5 00	6 75				
Ventilating Branches and Inverted Y Branches	1 00	1 50	2 00	2 50	3 25	3 25	6 25	1 50	2 00	2 50	3 50	4 50	9 00	10 00
T Cleanouts with round H H and iron cover	1 45	2 00	2 50	3 00	4 25	4 25	5 00	1 75	2 40	3 15	4 00	5 25	7 50	10 00
T Cleanouts with square H H and iron cover	1 70	2 25	2 75	3 25	4 50	4 50		2 00	2 65	3 50	5 00	6 00	7 50	10 00

When not already included in above list, add for 2 in. inlets \$1 00; 3 in. inlets, \$1 25; 4 in. inlets, \$1 50; 5 in. inlets, \$2 00; 6 in. inlets, \$2 50.

In all cases where the brass trap screw is furnished add in addition to inlet (unless list specifically includes inlet) \$2 50 to list.

EXTRA HEAVY

STANDARD

Sizes	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.	5 in.	6 in.	7 in.	8 in.
Sanitary T, Square T & Y "Sure Seal" cleanouts	1 90	2 50	3 00	4 75	6 00			2 35	3 25	4 00	5 75	8 00			5 75			
Offsets, to offset 2" inches	75	1 20	1 25	3 00	4 00			1 15	1 50	1 90	4 00				4 00			
Offsets, to offset 4" inches	85	1 35	1 50	3 40	4 00			1 35	1 85	2 10	4 50				6 00			11 00
Offsets, to offset 5" inches				3 60	4 50		8 50	1 50	2 00	2 40	5 00	6 50		10 00				12 00
Offsets, to offset 6" inches	1 00	1 50	1 70	3 80	5 00		9 00	1 65	2 25	2 70	5 50	7 00		11 00				13 00
Offsets, to offset 8" inches	1 15	1 65	1 95	4 20	5 50			1 80	2 50	3 00	6 00	7 50						14 00
Offset, to offset 10" inches	1 35	1 90	2 20	4 60	6 00			1 95	2 70	3 40	6 50	8 00						
Offsets, to offset 12" inches	1 50	2 10	2 45	5 00	6 50			2 15	3 00	4 45	7 00	9 00						
Offsets, to offset 14" inches	1 65	2 25	3 15	5 50	7 50			2 40	3 40	4 85	7 50	10 25						
Offsets, to offset 16" inches	2 10	2 60	3 50	6 00	8 50			3 00	3 75	5 00	8 50	12 00						
Offsets, to offset 18" inches	2 50	3 00	3 95	6 50	10 00			3 75	4 50	6 50	9 50	14 00						
Offsets, to offset 20" inches	2 90	3 40	4 40	7 00				4 50	5 25	7 85								
Offsets, to offset 22" inches	3 70	4 15	4 85					5 25	6 00	8 75								
Offsets, to offset 24" inches		4 50	5 20					6 00										
Offsets, to offset 26" inches		5 50						1 25	1 65	2 10								
Bend Offsets, to offset 2" inches	85	1 30	1 35	3 75				1 50	2 05	2 30	4 95							
Bend Offsets, to offset 4" inches	95	1 50	1 65	4 20	4 95			1 65	2 20	2 65	5 50	7 15						
Bend Offsets, to offset 6" inches		1 10	1 65	5 50	5 50			1 80	2 50	2 95	6 05	7 70						
Bend Offsets, to offset 8" inches	1 25	1 80	2 15	4 60	6 05			2 00	2 75	3 30	6 60	8 25						
Bend Offsets, to offset 10" inches	1 50	2 10	2 40	5 05	6 05			2 15	2 95	3 75	7 15	8 80						
Bend Offsets, to offset 12" inches	1 65	2 30	2 70	5 50	6 60			2 35	3 30	4 90	7 70	9 90						
Bend Offsets, to offset 14" inches	1 80	2 45	3 45	6 05	7 15			2 65	3 75	5 35								
Bend Offsets, to offset 16" inches	2 30	2 85	3 85					3 30	4 15	6 20								
Bend Offsets, to offset 18" inches	2 75	3 30	4 35					4 10	4 95	7 15								
Bend Offsets, to offset 20" inches	3 20	3 75	4 85							8 65								
Bend Offsets, to offset 22" inches			5 35							9 60								
Bend Offsets, to offset 24" inches			5 70															
S'gle & D'ble Hubs, Straight Sleeves & Thimbles	35	60	75	1 00	1 25	2 00	2 50	50	80	95	1 35	1 60	2 50	3 50	1 35	1 60	2 50	3 50
Thimbles with hand hole and cover	50	85	1 00	1 15	1 25	1 75	3 00	75	1 00	1 25	1 85	2 25	3 25	4 50	1 85	2 25	3 25	4 50
Reducers, Spigot End to govern				1 15	1 25				1 00	1 25	1 75	2 25		500	1 75	2 25		
Increasers, Hub End to govern	15	25	30	40	50	90	2 00	25	35	50	50	1 00	1 25	1 50	1 75	2 10	2 30	3 40
Plugs or Pipe Stoppers	45	75	90	1 05	1 35			60	1 00	1 20	1 50	2 10		4 50	1 70			
T Saddle Hubs	50	80	80	1 00	1 40			65	1 05	1 35								
Y and 1/2 Y Saddle Hubs	40	65	80	1 00	1 40													
Connolly T Saddle Hubs	45	70	90	1 15	1 55													
Connolly Y Saddle Hubs	65	90	1 20	1 85	2 60	3 00	3 35	1 35	1 70	2 25	3 00	4 10	5 25	6 00	3 00	4 10	5 25	6 00
Pipe Bands	1 10	1 50	1 85	2 60	3 35			2 25	2 60	3 00	4 10	5 25		7 50	4 10	5 25		7 50
Pipe Bands with outlets																		

When not already included in above list, add for 2 in. inlets, \$1.00; 3 in. inlets, \$1.25; 4 in. inlets, \$1.50; 5 in. inlets, \$2.00; 6 in. inlets, \$2.50.

In all cases where the brass trap screw is furnished add in addition to inlet (unless list specifically includes inlet) \$2.50 to list.

STANDARD

EXTRA HEAVY

Sizes	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.
Pipe Rests	40	60	75	90	1 25	1 50	1 75	50	65	85	1 25	1 50	2 00	2 25
Ventilating Caps, Spigot End	60	80	1 25	2 50	3 50			80	1 00	1 75	3 75	5 25		
Ventilating Caps, Hub End	90	1 10	1 55	3 00	4 00			1 10	1 30	2 05	4 25	5 75		
Long Ventilating Caps, Spigot End	95	1 25	1 80	3 75	5 25			1 35	1 85	2 60	4 75	6 00		
Long Ventilating Caps, Hub End	1	1 55	2 10	4 25	4 75			1 65	2 15	2 90	4 75	6 00		
Extension Pieces to extend 4" inches	60	1 00	1 30	1 70	2 20			1 00	1 80	2 40	2 80	3 20		
Extension Pieces to extend 6" inches	80	1 20	1 50	1 90	2 40			1 20	2 00	2 60	3 20	3 60		
Extension Pieces to extend 8" inches	90	1 40	1 70	2 20	2 70			1 40	2 20	2 80	3 60	4 00		
Extension Pieces to extend 10" inches	1 10	1 60	2 00	2 40	3 00			1 60	2 40	3 00	4 20	4 60		
Extension Pieces to extend 12" inches	1 30	1 80	2 30	2 70	3 40			1 80	2 60	3 20	4 80	5 40		
Extension Pieces to extend 14" inches	1 50	2 00	2 60	3 00	3 80			2 00	3 00	4 00	6 00	7 00		
Extension Pieces to extend 16" inches	1 70	2 20	2 90	3 60	4 20			2 20	3 20	4 40	7 00	8 00		
Extension Pieces to extend 18" inches	1 90	2 40	3 20	4 20	5 20			2 40	3 40	4 80	8 00	9 00		
Extension Pieces to extend 20" inches	2 10	2 60	3 60	4 80	6 00			2 60	3 60	5 20	8 50			
Extension Pieces to extend 22" inches	2 30	3 00	4 00	5 40	7 00									
Extension Pieces to extend 24" inches	2 50	3 40	4 40	6 00	8 00									
Plain Traps—S, $\frac{3}{4}$ S, P and Running	90	1 50	2 00	3 75	5 00	8 00	10 00	1 35	2 25	3 00	4 75	7 00	10 00	13 00
Hand hole and cover traps, S, $\frac{3}{4}$ S, P and Running	1 65	2 25	2 75	4 50	5 75	8 75	10 75	2 10	3 00	3 75	5 50	7 75	10 75	13 75
"Sure Seal," S, $\frac{3}{4}$ S, P and Running	1 65	2 25	2 75	4 50	5 75			2 10	3 00	3 75	5 50	7 75		
Deep "Sure Seal," S, $\frac{3}{4}$ S, P and Running	2 40	3 00	3 50	5 25	6 50			2 85	3 75	4 50	6 25	8 50		
Deep "Sure Seal," Combination Traps			5 00	7 00	8 50					6 00	8 00	10 00		
Traps with Vent and inlet on side for brass trap screws, 2" vent, S, $\frac{3}{4}$ S and P	2 90	3 50	4 00	5 75	7 00			3 35	4 25	5 00	6 75	9 00		
Traps with Vent and inlet on side for brass trap screws, 4" vent, S, $\frac{3}{4}$ S and P			4 50	6 25	7 50					5 50	7 25	9 50		
Traps with hand hole and cover and 2" heel or side inlet, S, $\frac{3}{4}$ S and P	2 65	3 25	3 75	5 50	6 75			3 10	4 00	4 75	6 50	8 75		
Long P Traps, 15 inches long			3 50							5 50				
Long P Traps, 18 inches long			3 75	6 25						6 00	8 50			
Long P Traps, 24 inches long			4 50							7 00				
Running Traps with Y Branch and Vent			5 00	6 75	8 00					6 00	8 00	10 00		
S, $\frac{3}{4}$ S, P and Running Traps with 2" Vent	1 90	2 50	3 00	4 75	6 00			2 35	3 25	4 00	5 75	8 00		
S, $\frac{3}{4}$ S, P and Running Traps with 3" Vent		2 75					11 50		3 50					
S, $\frac{3}{4}$ S, P and Running Traps with 4" Vent														
S, $\frac{3}{4}$ S, P and Running Traps with 5" Vent														
S, $\frac{3}{4}$ S, P and Running Traps with 6" Vent														
S, $\frac{3}{4}$ S, P and Running Traps with 8" Vent														
Running Traps only 2" Double Vent	2 90	3 50				10 00	12 00						12 00	15 00

When not already included in above list, add for 2 in. inlets, \$1.00; 3 in. inlets, \$1.25; 4 in. inlets, \$1.50; 5 in. inlets, \$2.00; 6 in. inlets, \$2.50.
In all cases where the brass trap screw is furnished add in addition to inlet (unless list specifically includes inlet) \$2.50 to list.

EXTRA HEAVY

STANDARD

Sizes	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.	2 in.	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.
Running Traps only 3" Double Vent		4 00	5 00	6 75	8 00		13 00		4 75	6 00	7 75	10 00		16 00
Running Traps only 4" Double Vent				7 25							8 25			
Running Traps only 5" Double Vent					9 00		14 00					11 00	14 00	17 00
Running Traps only 6" Double Vent														
Running Traps only 8" Double Vent														
Trap Covers														
Long T, San. T or TY, Y, and $\frac{1}{2}$ Y Branches 18" clear	15	20	25	40	50	75	90	22	32	40	50	65	90	1 05
Long T, San. T or TY, Y, and $\frac{1}{2}$ Y Branches 24" clear	1 65	2 55	3 50	4 75	6 75			2 45	3 65	5 35	7 10	8 75		
Long T, San. T or TY, Y, and $\frac{1}{2}$ Y Branches 30" clear	2 05		4 25	5 75	7 75			2 95		6 10	8 10	9 75		
Long T, San. T or TY, Y, and $\frac{1}{2}$ Y Branches 36" clear		4 05	5 00	6 75	8 75				5 35	6 85	9 10	10 75		
Long T, San. T or TY, Y, and $\frac{1}{2}$ Y Branches 4" Branches only			5 75	7 75	9 75					7 60	10 10	11 75		
Double Angle Y Branch 4" Branches			3 50	4 50	5 75					7 25	5 75	7 25		
Special Reducing Sanitary T and Y Branches			2 10	2 75	4 25					2 90	3 95	5 40		
T, Sanitary T or TY, Y, and $\frac{1}{2}$ Y Branches	70	1 25	1 75	2 25	3 50	5 00	6 00	1 00	1 65	2 40	3 30	4 50	7 00	9 00
Sanitary T Branches all Hub ends	1 30		2 35					4 50		3 60	4 45	6 75	10 50	13 50
T Branches, all Hub ends	1 40	2 05	2 60	3 35	5 25	7 50	9 00	2 00	1 85	3 00				
Double Y and $\frac{1}{2}$ Y Branches, crosses and sanitary crosses		1 40	2 00											
Double Quarter Bends	1 70		2 90					3 95						
Sanitary Crosses, all Hub ends	2 85			9 00						9 15	11 00			
Long Combination Y and $\frac{1}{2}$ Bend, 24" clear			6 25					2 30		4 80				
Boston Long TY 2" top Vent	1 80		3 30					1 75		2 95				
Tapped T and Sanitary T Branches up to 2"	1 45	1 80	2 20					2 20	2 20	3 35	3 75			
Tapped, Inverted Sanitary T Branches	1 60	2 00	2 45	2 95				2 20	2 45	3 35	3 75			
Tapped, San. T Branches, Cal. Pattern	1 60	2 00	2 50	3 00				3 00	3 55	4 40				
Tapped Crosses and Tapped San. Crosses up to 2"	2 40	2 85	3 40					2 25	2 55	3 40	4 05	5 05		
Tapped Ventilating and Inverted Y Branches up to 2"	1 75	2 05	2 55	3 05	3 80				1 50	1 75	2 60			
Tapped Increases	1 00		1 50	2 00										
Short Increases														
Tapped Increases and Offsets, 6" offset														
Long Tapped Increases, 24" long			2 50											
N. Y. San. T Branches with 2" Y angle inlet											5 75			
Return Bends, Spigot outlet		2 50	2 75											
Return Bends, Hub outlet			2 90											
Crosses, all Hub ends			4x5	4x6	5x5			4x2	4x4	4x5	4x6	5x5		
Sizes	4x2	4x4	4x5	4x6	5x5			4x2	4x4	4x5	4x6	5x5		
Upright Y Branches	3 00	3 00		4 00				4 50	4 50	5 25	6 00	6 50		

When not already included in above list, add for 2 in. inlets, \$1.00; 3 in. inlets, \$1.25; 4 in. inlets, \$1.50; 5 in. inlets, \$2.00; 6 in. inlets, \$2.50.
In all cases where the brass trap screw is furnished add in addition to inlet (unless list specifically includes inlet) \$2.50 to list.

GALVANIZED IRON RANGE BOILERS

CAPACITY	DIAMETER	PRICE	CAPACITY	DIAMETER	PRICE
18 gallons	3 feet by 12 inches	14 50	48 gallons	6 feet by 14 inches	30 00
21 gallons	3½ feet by 12 inches	15 50	52 gallons	5 feet by 16 inches	31 00
24 gallons	4 feet by 12 inches	15 75	53 gallons	4 feet by 18 inches	31 50
24 gallons	3 feet by 14 inches	19 00	63 gallons	6 feet by 16 inches	38 00
27 gallons	4½ feet by 12 inches	18 50	66 gallons	5 feet by 18 inches	38 00
28 gallons	3½ feet by 14 inches	20 25	79 gallons	6 feet by 18 inches	44 00
30 gallons	5 feet by 12 inches	19 00	82 gallons	5 feet by 20 inches	45 50
32 gallons	4 feet by 14 inches	21 00	98 gallons	6 feet by 20 inches	61 50
35 gallons	5 feet by 13 inches	21 00	100 gallons	5 feet by 22 inches	63 50
36 gallons	6 feet by 12 inches	24 50	120 gallons	6 feet by 22 inches	74 00
36 gallons	4½ feet by 14 inches	21 50	120 gallons	5 feet by 24 inches	72 50
40 gallons	5 feet by 14 inches	24 00	144 gallons	6 feet by 24 inches	103 00
42 gallons	4 feet by 16 inches	26 00	168 gallons	7 feet by 24 inches	120 00
47 gallons	4½ feet by 16 inches	30 00	192 gallons	8 feet by 24 inches	132 00

BOILER STANDS

Size ring.....	12	13	14	15	16	17	18	20	22	24
Price, plain	1 25	1 30	1 40	1 50	1 75	1 85	2 00	2 25	2 75	3 50
Price, galvanized.....	2 50	2 60	2 70	3 00	3 25	3 60	3 80	4 50	5 00	6 50

COPPER PRESSURE BOILERS

"Modern." 200 pounds test, for working pressure of 100 pounds.

Wilhelmi. 250 pounds test, for working pressure of 150 pounds.

Gallons.....	30	35	40	50	60	80	90	100	120	125	125	150	200	225	225	250	250	300
Price	30	35	40	50	60	80	90	100	120	125	135	165	220	255	255	280	280	335
Height, inches.....	60	60	60	60	60	60	54	62	73	76	69	78½	87	98	74	108	82	98
Diameter, inches	12	13	14	16	18	20	22	22	22	22	24	24	26	26	30	26	30	30

All couplings for ¾ inch lead pipe unless otherwise ordered.

BROWN'S SEAMLESS DRAWN COPPER RANGE BOILER

CAPACITY	HEIGHT	DIAMETER	PRICE	PRICE	BOXING
Gallons	Inches	Inches	Regular Pressure	Extra Heavy Pressure	
30	60	12	30 00	40 00	1 00
35	53	14	35 00	45 00	1 00
40	60	14	40 00	50 00	1 25
45	68	14	45 00	55 00	1 25
50	60	16	50 00	65 00	1 50
60	70	16	60 00	80 00	1 50
80	96	16	80 00	105 00	2 00
60	44	20	90 00	115 00	2 00
80	59	20	110 00	135 00	2 00
100	76	20	125 00	150 00	2 75
100	60	24	150 00	175 00	2 75
120	65½	24	155 00	180 00	3 00
125	69	24	160 00	185 00	3 50
150	78½	24	180 00	205 00	4 00
180	92½	24	210 00	235 00	4 00
200	103	24	240 00	265 00	4 00

Regular pressure, tested to 200 pounds internal pressure to square inch, and are recommended for a working pressure of 150 pounds.

Extra heavy pressure, tested to 300 pounds internal pressure to square inch, and are recommended for a working pressure of 200 pounds.

All couplings are for iron pipe connections, unless ordered otherwise. Couplings threaded for ½ inch iron pipe furnished if desired; also ¾ inch and ¾ inch brass pipe fine thread fittings.

BRACKETS, HANGERS, AND BOILER STANDS

Size, inches	10	12	14	16	18	20	22	24	30	36	42	48
Brackets for horizontal boilers and tanks:												
Black, per pair.....	6 00	6 00	6 00	6 50	8 00	8 00	9 50	9 50				
Galvanized, per pair	6 50	6 50	6 50	7 50	9 00	9 00	11 00	11 00				
Hangers, for horizontal boilers and tanks:												
Black, per pair	3 50	3 50	3 50	4 00	4 00	5 50	5 50	6 00	14 00	17 00		
Galvanized, per pair	4 00	4 00	4 00	5 00	5 00	7 50	7 50	8 00	21 00	25 00		
Boiler Stands for vertical tanks:												
Plain.....								8 00	9 00	10 00	12 00	14 00
Galvanized								11 50	13 00	14 50	17 00	19 50

IRON HOT WATER TANKS

With 3-16 in. shell and 1-4 in. heads

CAPACITY	DIMENSIONS	BLACK	GALVANIZED
66 gallons	18 inches by 60 inches	48 00	70 00
82 gallons	20 inches by 60 inches	54 00	78 00
100 gallons	22 inches by 60 inches	59 00	87 00
120 gallons	24 inches by 60 inches	64 00	94 00
144 gallons	24 inches by 72 inches	72 00	108 00
150 gallons	30 inches by 48 inches	77 00	112 00
185 gallons	30 inches by 60 inches	84 00	125 00
225 gallons	30 inches by 72 inches	91 00	141 00
260 gallons	36 inches by 84 inches	109 00	159 00
300 gallons	30 inches by 96 inches	118 00	176 00
370 gallons	30 inches by 120 inches	130 00	194 00
210 gallons	36 inches by 48 inches	91 00	141 00
265 gallons	36 inches by 60 inches	100 00	154 00
290 gallons	36 inches by 66 inches	105 00	165 00
315 gallons	36 inches by 72 inches	110 00	170 00
360 gallons	36 inches by 84 inches	134 00	200 00
415 gallons	36 inches by 96 inches	144 00	215 00
520 gallons	36 inches by 120 inches	165 00	247 00
360 gallons	42 inches by 60 inches	134 00	200 00
430 gallons	42 inches by 72 inches	150 00	220 00
500 gallons	42 inches by 84 inches	170 00	246 00
575 gallons	42 inches by 96 inches	186 00	268 00
720 gallons	42 inches by 120 inches	220 00	310 00

IRON HOT WATER TANKS

With 1-4 in. shell and 3-8 in. heads

CAPACITY	DIMENSIONS	BLACK	GALVANIZED
150 gallons	30 inches by 48 inches	82 00	131 00
185 gallons	30 inches by 60 inches	92 00	148 00
225 gallons	30 inches by 72 inches	102 00	166 00
260 gallons	30 inches by 84 inches	120 00	184 00
300 gallons	30 inches by 96 inches	130 00	204 00
370 gallons	30 inches by 120 inches	142 00	232 00
210 gallons	36 inches by 48 inches	102 00	166 00
265 gallons	36 inches by 60 inches	110 00	180 00
290 gallons	36 inches by 66 inches	115 00	195 00
315 gallons	36 inches by 72 inches	120 00	200 00
360 gallons	36 inches by 84 inches	144 00	224 00
415 gallons	36 inches by 96 inches	154 00	242 00
520 gallons	36 inches by 120 inches	175 00	275 00
360 gallons	42 inches by 60 inches	144 00	224 00
430 gallons	42 inches by 72 inches	160 00	245 00
500 gallons	42 inches by 84 inches	180 00	276 00
575 gallons	42 inches by 96 inches	196 00	300 00
720 gallons	42 inches by 120 inches	230 00	350 00
470 gallons	48 inches by 60 inches	205 00	305 00
570 gallons	48 inches by 72 inches	226 00	340 00
650 gallons	48 inches by 84 inches	255 00	375 00
750 gallons	48 inches by 96 inches	275 00	410 00
850 gallons	48 inches by 108 inches	300 00	445 00
940 gallons	48 inches by 120 inches	325 00	485 00
1,030 gallons	48 inches by 132 inches	350 00	520 00
1,130 gallons	48 inches by 144 inches	375 00	560 00

Other sizes made to order.

The above price lists include four tappings for water connections, tappings not to be larger than two inch iron pipe size. Special tappings, manholes, and handholes when desired, will be charged extra in addition to the price for tanks

BRACKETS FOR HORIZONTAL BOILERS AND TANKS

SIZE	BLACK, PER PAIR	GALVANIZED, PER PAIR
10 inches	6 00	6 50
12 inches	6 00	6 50
14 inches	6 00	6 50
16 inches	6 50	7 50
18 inches	8 00	9 00
20 inches	8 00	9 00
22 inches	9 50	11 00
24 inches	9 50	11 00

HANGERS FOR HORIZONTAL BOILERS AND TANKS

SIZE	BLACK, PER PAIR	GALVANIZED, PER PAIR
10 inches	3 50	4 00
12 inches	3 50	4 00
14 inches	3 50	4 00
16 inches	4 00	5 00
18 inches	4 00	5 00
20 inches	5 50	7 50
22 inches	5 50	7 50
24 inches	6 00	8 00
30 inches	14 00	21 00
36 inches	17 00	25 00

BOILER STANDS FOR VERTICAL TANKS

SIZE	PLAIN	GALVANIZED
24 inches	8 00	11 50
30 inches	9 00	13 00
36 inches	10 00	14 50
42 inches	12 00	17 00
48 inches	14 00	19 50

CAST IRON SINKS

Size	Plain	Galv'd	Painted	Enameled	Size	Plain	Galv'd	Painted	Enameled
12 x 12	1 10	2 20	1 00	2 15	22 x 36	3 70	7 75	3 80	5 50
12 x 16	1 10	2 30	1 10	2 25	20 x 40	4 00	8 75	4 00	5 75
12 x 18	1 25	2 60	1 25	2 40	20 x 42	4 25	9 00	4 25	6 00
12 x 20	1 50	3 10	1 40	2 65	20 x 48	5 30	11 50	5 25	6 75
14 x 14	1 25	2 60	1 35	2 50	22 x 42	4 25	9 00	4 75	6 25
14 x 20	1 50	3 20	1 50	3 00	23 x 42	4 60	9 20	5 00	6 50
14 x 22	1 60	3 30	1 60	3 10	23 x 48	5 75	12 25	5 75	7 50
14 x 24	1 70	3 75	1 70	3 15	24 x 48	6 00	12 25	6 00	7 75
15 x 23	-----	-----	1 70	3 15	24 x 50	7 50	16 00	7 50	9 00
15 x 27	2 00	4 25	2 00	3 65	20 x 60	-----	-----	10 00	25 00
16 x 16	1 60	3 25	1 50	2 65	24 x 60	-----	-----	12 00	30 00
16 x 20	1 60	3 50	1 70	3 15	22 x 62	-----	-----	12 00	30 00
16 x 24	1 80	4 00	1 90	3 25	20 x 72	13 00	26 00	13 00	33 00
16 x 28	2 10	4 50	2 10	3 75	24 x 72	-----	-----	15 00	35 00
16 x 30	2 25	4 75	2 25	3 90	24 x 84	-----	-----	17 00	-----
17 x 28	2 20	4 50	2 20	3 75	24 x 96	28 00	56 00	19 00	-----
18 x 24	2 10	4 30	2 10	3 50	24 x 108	-----	-----	21 00	-----
18 x 30	2 50	5 10	2 50	4 25	24 x 120	36 00	72 00	24 00	-----
18 x 32	3 00	6 25	2 75	4 65	Add for overflow	-----	-----	-----	1 50
18 x 36	3 00	6 50	3 25	4 75	Add for overflow and plug strainer	-----	-----	-----	2 00
20 x 24	2 40	5 00	2 40	3 75	Add for overflow nickel plated strainer and rubber stopper	-----	-----	-----	2 00
20 x 28	2 70	5 50	2 70	4 00					
20 x 30	3 00	6 25	3 00	4 50					
20 x 36	3 70	7 75	3 70	5 25					
20 x 38	3 80	8 00	3 80	5 50					

SQUARE SLOP SINKS

Size	Plain	Galvanized	Enameled	Size	Plain	Galvanized	Enameled
16 x 16 x 10	2 70	5 25	4 50	36 x 20 x 12	10 00	19 00	12 75
16 x 16 x 12	-----	-----	4 80	36 x 21 x 16	-----	-----	17 75
20 x 14 x 12	3 50	6 50	5 10	48 x 20 x 12	-----	-----	19 00
20 x 16 x 12	4 00	8 25	6 00	48 x 20 x 17	-----	-----	24 00
22 x 20 x 12	-----	-----	6 93	72 x 20 x 12	-----	-----	33 25
23 x 15 x 15	-----	-----	6 60				
24 x 18 x 12	-----	-----	6 60	Add for Overflow	-----	-----	3 00
24 x 20 x 12	5 00	9 50	7 25	Add for Overflow and Plug Strainer	-----	-----	3 50
30 x 20 x 12	8 00	15 00	10 50				

STEEL-CLAD BATHS

Dimensions.—4 ft. 6 in., 5 ft., 5 ft. 6 in. by 28 in. outside of rim, 17½ in. deep; height from floor to top of rim, 23½ in.

Size, feet	4½	5	5½	6
With connected overflow and waste, 12 oz. copper	24 50	25 50	26 50	28 50
With connected overflow and waste, 14 oz. copper	26 50	27 50	28 50	30 50
With connected overflow and waste, 16 oz. copper	28 50	29 50	30 50	32 50
Galvanized steel, white enamelled interior	19 50	20 50	21 50	24 50

If without connected overflow and waste, deduct 1 50 from above prices.

GALVANIZED SPIRAL LOCK-SEAM PIPE AND FITTINGS

Diameter	1½	2	2½	3	4	5	6
Pipe, per foot	12	14	17	19	25	30	38
Adjustable elbows, each {	20	20	30	30	40	55	70
L. B. elbows, each {							
¼ and ½ bends, each {	18	18	22	24	36	50	64
Couplers, each {							
Conductor caps	11	11	13	15	20	26	32
T's, Y's, and reducers	25	30	40	45	60	78	96

GALVANIZED EAVES TROUGH AND FITTINGS

Size	3	3½	4	4½	5	6	7	8
Eaves trough single bead lap joint, per foot	13	14	16	18	19	23	27	30
Eaves trough single bead slip joint, per foot	14	15	17	19	20	24	28	31
Eaves trough double bead lap joint, per foot	16	17	19	21	22	26	30	33
Eaves trough double bead slip joint, per foot	17	18	20	22	23	27	31	34
Eaves trough mitres single bead lap joint, per doz.	2 25	2 50	2 75	2 90	3 00	3 50	4 25	5 00
Eaves trough mitres single bead slip joint, per doz.	2 75	3 00	3 25	3 40	3 50	4 00	4 75	5 50
Eaves trough mitres double bead lap joint, per doz.	2 75	3 00	3 25	3 40	3 50	4 00	4 75	5 50
Eaves trough mitres double bead slip joint, per doz.	3 25	3 50	3 75	3 90	4 00	4 50	5 25	6 00
Eaves trough end pieces (cap and outlet), per doz.	2 80	2 80	3 10	3 45	3 45	4 15	4 70	5 25
Eaves trough end pieces (cap only), per doz.	95	95	1 10	1 20	1 20	1 45	1 70	2 10
Wire hangers, single bead, per gross	2 75	2 75	2 75	3 00	3 00	3 50	4 00	4 50
Wire hangers, double bead, per gross	3 00	3 00	3 00	3 25	3 25	3 75	4 25	4 75
Steel hang., with r'ds and nuts comp. sing. bead, per gross ..	3 75	4 00	4 25	4 35	4 50	5 00	6 00	8 00
Steel hang., with r'ds and nuts comp. double bead, per gross ..	4 00	4 25	4 50	4 60	4 75	5 25	6 25	8 25

GALVANIZED CONDUCTOR PIPE AND FITTINGS

Size	1½	2	2½	3	4	5	6
Plain round, per foot	13	13	14	15	20	25	30
Corrugated, per foot	13	13	14	15	20	25	
Elbows, round, each		25		30	60	1 25	1 50
Shoes, round, each		36		45	75	1 50	1 80
Conductor Heads, each		13		15	20	25	30
Galvanized strainers, per doz.		1 50		2 00	3 00	5 00	6 00
Conductor hooks hinged for wood, per 100		6 00		8 00	10 00	15 00	17 00
Conductor hooks hinged for brick, per 100		7 00		9 00	11 00	15 00	17 00
Conductor hooks wired for wood, per 100		5 00		6 00	7 00		

THE HODGDON IMPROVED BRASS PIPE HANGER

Single, finished brass, each	35	Nickel plated, each	45
Double, finished brass, each	50	Nickel plated, each	60
Triple, finished brass, each	65	Nickel plated, each	80
4 pipe, finished brass, each	85	Nickel plated, each	1 05
5 pipe, finished brass, each	1 10	Nickel plated, each	1 35

HASKELL PIPE HANGERS

Size	¾	1	1½	2	2½	3
*For fine thread brass tubing, single, per doz.			2 50	2 50	3 00	3 50
*For fine thread brass tubing, double, per doz.			6 00	6 00	6 60	7 20
*For fine thread brass tubing, triple, per doz.			8 40	8 40	9 00	9 60
*For iron size brass pipe, single, per doz.	2 50	2 50		3 50		4 25
*For iron size brass pipe, double, per doz.	6 00	6 00		7 20		10 80
*For iron size brass pipe, triple, per doz.	8 40	8 40		9 60		12 00
Extra plates: Double, 1 30; Triple, 1 70 per dozen						
For galvanized iron pipes, single, per doz.	1 60	1 75		2 00		2 50
For galvanized iron pipes, double, per doz.	3 50	3 75		4 25		5 75
For galvanized iron pipes, triple, per doz.	5 00	5 50		6 25		7 75

***FOR NICKEL PLATING ADD PER DOZ. NET**

Single 50	Double 1 00	Triple 1 25	Double plates 50	Triple plates 65
--------------	----------------	----------------	---------------------	---------------------

ENAMELED IRON HOPPERS

White Enamel Inside, Painted Red Outside

Short oval flushing rim	5 00	Add for roll rim	1 00
Long oval flushing rim	5 50	Add for vent	60
Short round flushing rim	5 00	Add for seat lugs	60
Long round flushing rim	5 00		

P 1200 — PORCELAIN ENAMELED ONE PIECE SINK AND BACK
On Concealed Hanger, N. P. Strainer, Fuller Adjustable Flange Bibbs and Cover, Galvanized Air Chambers and P Trap.

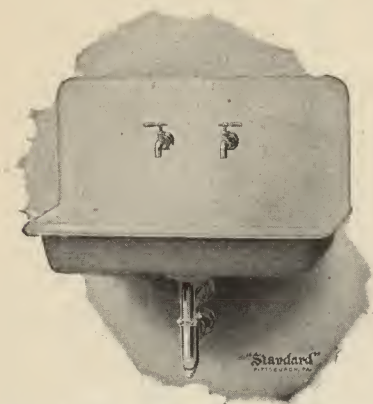


PLATE P 1200. A step forward in Kitchen Equipment. Made in one piece

Size	Enameled Inside	Enameled in and out
16 x 24	19 00	23 00
18 x 24	19 50	23 50
18 x 30	21 00	25 00
18 x 36	22 25	27 25
20 x 30	21 75	26 75
20 x 36	23 00	28 00
22 x 36	23 50	28 50
20 x 40	24 25	29 25
22 x 42	24 75	29 75
If with painted brackets instead of wall hanger, add per pair		50
If with hose end Fuller bibbs, add per pair		50
If with porcelain enam. brackets instead of wall hanger add per pair.....		1 00
If with painted legs instead of wall hanger add per pair		1 00
If with porcelain enameled legs instead of wall hanger, add per pair		1 50
If without vented P trap, deduct		5 75
If without bibbs, deduct per pair		2 50
If without galvanized air chambers, deduct per pair		2 00



CONCRETE LAUNDRY TRAYS AND SINKS

TRAYS		No BACK	6 IN. BACK	12 IN. BACK
22 by 24½	1 Part	5 00	7 00	8 00
24 by 24½	1 Part	5 00	7 00	8 00
36 by 22	2 Part	7 92	11 08	12 67
42 by 22	2 Part	7 92	11 08	12 67
48 by 20	2 Part	7 92	11 08	12 67
48 by 22	2 Part	8 40	11 76	13 44
48 by 24	2 Part	8 40	11 76	13 44
72 by 24	3 Part	13 50	18 90	21 60
SINKS		No BACK	6 IN. BACK	12 IN. BACK
30 by 22	.....	4 50	6 30	7 20
30 by 24	.....	4 50	6 30	7 30
36 by 22	.....	5 00	7 00	8 00
36 by 24	.....	5 00	7 00	8 00
42 by 24	.....	6 00	8 40	9 60
Combinations 54 inches over all.				
30 by 22.	{ Sink	10 50	14 70	16 80
22 by 22.	{ Tray			
30 by 24.	{ Sink	11 00	14 50	17 60
24 by 24.	{ Tray			

We do not carry a complete line of Trays and Sinks with backs. Will furnish same on three weeks' notice

SEPTEMBER 1, 1909

LEVER HANDLE GROUND BIBBS

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Plain bibbs, rough, lead or iron pipe, per doz.	16 20 17 40	18 60 25 80	30 60 42 00	70 20 105 00	186 00				
Plain bibbs, finished lead or iron pipe, per doz.....	20 40 21 60	22 80 30 60	36 60 51 00	82 20 123 00	210 00				
Plain bibbs, nickel plated, lead or iron pipe, per doz.....	24 60 25 80	27 00 35 40	42 60 60 00	94 20 141 00	234 00				
Plain bibbs, rough iron pipe S. O. T. or screwed for wood	18 00 19 20	20 40 28 80	34 80 48 00	79 20 117 00	210 00				
Plain bibbs, finished iron pipe S. O. T. or screwed for wood	22 20 23 40	24 60 33 60	40 80 57 00	91 20 135 00	234 00				
Plain bibbs, nickel plated iron pipe S. O. T. screw'd for w'd	26 40 27 60	28 80 38 40	46 80 66 00	103 20 153 00	258 00				

SEPTEMBER 1, 1909

BRASS WATER WORK, ETC. GROUND KEY WORK

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough stops, lever or tee handle, lead or iron pipe, per doz.	16 20 17 40	18 60 25 80	30 60 42 00	70 20 105 00	186 00				
Finished stops, lever or tee handle, lead or iron pipe, per doz.....	20 40 21 60	22 80 30 60	36 60 51 00	82 20 123 00	210 00				
Nickel pl. stops, lever or tee handle, lead or iron pipe, per doz.....	24 60 25 80	27 00 35 40	42 60 60 00	94 20 141 00	234 00				
Rough stop and waste lever or tee handle, lead or iron pipe, per doz.	16 80 18 00	19 20 26 40	31 20 43 20	72 00 108 00	192 00				
Finished stop and waste lever or tee handle, lead or iron pipe, per doz.	21 00 22 20	23 40 31 20	37 20 52 20	84 00 126 00	216 00				
Nickel plated stop and waste lever or tee handle, lead or iron pipe, per doz.	20 25 26 40	27 60 36 00	43 20 61 20	96 00 144 00	240 00				

Size. Fine thread, inches	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
Size. Iron pipe body, inches	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$
Rough stops, lever or tee handle, per doz.	17 40	18 60	25 80	30 60
Finished stops, lever or tee handle, per doz.....	21 60	22 80	35 40	42 00
Nickel plated stop, lever or tee handle, per doz.	25 80	27 00	38 40	46 00
Rough stop and waste, lever or tee handle, per doz.	18 00	19 20	26 40	32 00
Finished stop and waste, lever or tee handle, per doz	22 20	23 40	31 20	38 00
Nickel plated stop and waste, lever or tee handle, per doz.	26 40	27 60	36 00	43 20

Size inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough stop, round way, lever or tee handle, per doz.	19 80	21 60	23 40	31 20	39 60	60 00	97 20	141 00	252 00
Rough stop and waste, round way, lever or tee handle, per dz	20 40	22 20	24 00	31 80	40 20	61 20	99 00	144 00	258 00

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Rough stop, left hand, with coupling for lead pipe, per doz.	27 00	36 60	43 20	60 00
Rough stop and waste, left hand, with coupling for lead pipe, per doz.....	27 60	37 20	43 80	61 20
Rough stop, round way, left hand, coupling for lead pipe, per doz.	31 80	42 00	52 20	78 00
Rough stop and waste, round way, left hand coupling for lead pipe, per doz.....	32 40	42 60	52 80	79 20

Size, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough "H" pattern stop, per doz.	20 40	27 00	34 20	52 80	84 60	123 00	216 00	
Rough "H" pattern stop and waste, per doz.	21 00	27 60	34 80	54 00	86 40	126 00	222 00	
Rough "Newport" stop, per doz.	22 80	37 20	53 40	61 20	96 60	141 00	252 00	
Rough "Newport" stop and waste, per doz.	23 40	37 80	54 00	62 40	98 40	144 00	258 00	
Fitchburg pattern stop and waste, rough iron pipe, $\frac{1}{2}$ x 1 40 00.....			36 00	50 00				
Corporation cocks, without couplings, per doz.	16 20 17 40	23 40 30 00	48 00	111 00	168 00	270 00		
Corporation cocks, with hexagon on Main end, per doz.....	18 00 19 20	26 40 34 20	54 00	120 00	180 00	288 00		
Corporation cocks, with couplings, per doz.	18 00 19 20	27 00 34 20	54 00	120 00	180 00	288 00		
Corporation cocks, with hexagon on main end, per doz.	19 80 21 00	30 00 38 40	60 00	129 00	192 00	306 00		
Lead flange corporation cocks, per doz.	24 00 25 80	35 40 45 00	68 40	147 00	219 00	346 20		
Lead flange corporation cocks, with hexagon on main end, per doz.....	25 80 27 60	38 40 49 20	74 40	156 00	231 00	364 20		
Lead flange couplings, per doz.	9 00 10 20	14 40 18 00	24 00	43 20	60 00	90 00		

COMPRESSION BIBBS

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{1}$
Compression plain bibbs, finished for lead or iron pipe, per doz.	13 20	13 80	14 40	20 40	26 40
Compression plain bibbs, nickel plated for lead or iron pipe, per doz.	16 20	16 80	17 40	23 40	30 00
Compression hose bibbs, finished for lead or iron pipe, per doz.		16 20	16 80	22 80	28 80
Compression hose bibbs, nickel plated for lead or iron pipe, per doz.		19 20	19 80	25 80	32 40
Compression plain bibbs, finished iron pipe with flange		18 60	19 20	26 40	33 60
Compression plain bibbs, nickel plated iron pipe with flange		21 60	22 20	29 40	37 20
Compression hose bibbs, finished iron pipe with flange		21 00	21 60	28 80	36 00
Compression hose bibbs, nickel plated iron pipe with flange		24 00	24 60	31 80	39 60
Compression plain bibbs, finished iron pipe with flange and thimble		21 00	21 60	29 40	37 20
Compression plain bibbs, nickel plated iron pipe with flange and thimble		24 00	24 60	32 40	40 80
Compression plain bibbs, finished lead pipe with flange and thimble		22 80	23 40	32 40	41 40
Compression plain bibbs, nickel plated lead pipe with flange and thimble		25 80	26 40	35 40	45 00
Add for Hexagon in front of Flange, per doz.		2 40	2 40	2 40	2 40
Compression plain bibbs, finished lead pipe flange nut and coupling		23 40	26 40	38 40	50 40
Compression plain bibbs, nickel plated lead pipe flange nut and coupling		26 40	29 40	41 40	54 00
Add for Loose Flange, per doz.			6 60	7 20	7 80
Add for Hose End, per doz.		2 40	2 40	2 40	2 40
Add for Stuffing Box, per doz.		2 40	3 00	3 60	4 80
Compression wash tray bibbs, finished lead or iron pipe			15 60	21 60	28 20
Compression wash tray bibbs, finished flange and thimble			22 80	30 60	39 00
Compression wash tray bibbs, finished flange nut and bent coupling			27 60	39 60	52 20
Compression wash tray bibbs, finished iron pipe S. O. T.			19 80	27 00	34 80
Compression wash tray bibbs, finished flanged iron pipe, male or female			20 40	27 60	35 40
Add for nickel plating			3 00	3 00	3 60
Add for side handle pattern			2 40	2 40	3 00
Compression bath bibbs, finished lead or iron pipes, with stuffing box			21 00	28 80	40 80
Compression bath bibbs, finished flanged iron pipe, male or female, with stuff. box			25 80	34 80	48 00
Compression bath bibbs, finished flange and thimble, with stuffing box			21 20	37 80	51 60
Compression bath bibbs, finished flange, nut, and bent coupling, with stuffing box			33 00	46 80	64 80
Add for nickel plating			3 00	3 00	3 60
Without stuffing box deduct			3 00	3 60	4 80

COMPRESSION STOPS, STOP, AND WASTES AND COCKS

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Compression stops, rough lead pipe, iron pipe, or lead and iron, per doz.	11 40	12 00	14 40	19 80	26 40	45 00	87 00
Compression stops, finished lead pipe, iron pipe, or lead and iron, per doz.	12 00	12 60	15 00	21 00	27 60	48 00	90 00
Compression stops, nickel plated lead pipe, i'n pipe, or l'd and i'n, per doz.	15 00	15 60	18 00	24 00	31 20	52 80	99 00
Compression st'p and w'ste r'gh l'd pipe or l'd and i'n (stuff. box inc.)		22 80	23 40	28 80	36 00	57 00	105 00
Compression st'p and w'ste fin. l'd pipe, i'n pipe or l'd and i'n (stuff box inc)		23 40	24 00	30 00	37 20	60 00	108 00
Compression stop and waste, nickel plated, lead pipe, iron pipe, or lead and iron (stuffing box inc.)		26 40	27 00	33 00	40 80	64 80	117 00
Compression urinal cocks, finished lead or iron pipe, per doz.				21 60			
Compression urinal cocks, nickel plated lead or iron pipe, per doz.				24 60			
Compression hopper cocks, fin. fl. and ha'dle l'd pipe i'n pipe or l'd and i'n				20 40	26 40	33 00	
Compression hopper cocks, nickel plated flange and handle				23 40	29 40	36 60	
Add for stuffing box				3 00	3 60	4 80	

Size. Stop Body, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Size. Fine Thread, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	1	$1\frac{1}{4}$
Compression stops, rough, per doz.	12 00	14 40	19 80	26 40	45 00
Compression stops, finished, per doz.	12 60	15 00	21 00	27 60	48 00
Compression stops, nickel plated, per doz.	15 60	18 00	24 00	31 20	52 80

SELF-CLOSING ANGLE HOPPER COCKS

Size	$\frac{1}{2}$	$\frac{3}{8}$
Telegraph handle, lead pipe or iron pipe, finished flange and handle mall lever	36 00	42 00
Telegraph handle, lead pipe or iron pipe, nickel plated flange and handle	42 00	48 00
Telegraph handle, lead and iron pipe with coupling, "California patt." finished flange and handle	42 00	49 20
Telegraph handle, lead and iron pipe with coupling, "California patt." nickel plated flange and handle	48 00	55 20
Telegraph handle, lead and iron pipe without coupling, "California patt." deduct	6 00	7 20
Add for brass lever	3 00	3 00

DOHERTY SELF-CLOSING WORK

Size	3/8	1/2	5/8	3/4	1
Plain bibbs, finished, lead or iron pipe, per doz.	28 20	28 80	34 80	45 60	72 00
Plain bibbs, finished, flange and thimble, per doz.	35 40	36 00	43 80	56 40	88 20
Plain bibbs, finished, flange nut and bent coupling, per doz.	37 80	40 80	52 80	69 60	108 00
Plain bibbs, finished, iron pipe S. O. T., per doz.	30 00	30 60	37 80	49 80	78 00
Plain bibbs, finished, lead pipe, detachable shank, per doz.		34 20	40 80	52 80	81 00
Plain bibbs, finished, iron pipe flange and detachable shank, per doz.		39 00	46 80	60 00	91 80
Add for hose end	4 20	4 20	4 20	4 20	8 40
Add for nickel plating	6 00	6 00	6 00	7 80	10 20
Hopper cocks, finished flange, lead or iron pipe, per doz.		39 00	54 00		
Hopper cocks, nickel plated flange, lead or iron pipe, per doz.		54 00	60 00		
Urinal cocks, finished, lead pipe		36 00			
Urinal cocks, nickel plated, lead pipe		42 00			
Urinal cocks, finished, iron pipe		39 00			
Urinal cocks, nickel plated, iron pipe		45 00			
Basin cocks, finished or nickel plated		48 00			
Pantry cocks, finished or nickel plated, plain end		63 00			
Pantry cocks, finished or nickel plated, hose end		66 00			
Stop cocks, finished lead or iron pipe, per doz.	29 40	35 40	46 80	72 00	
Stop cocks, nickel plated, lead or iron pipe, per doz.	35 40	41 40	54 60	82 20	
Perry self closing basin cock, finished	48 00				
Perry self closing basin cock, nickel plated	48 00				
For 4 arm handle, with china index, add	10 80				
Perry self closing bibbs, lead or iron pipe, finished	27 00	30 00			
Perry self closing bibbs, lead or iron pipe, nickel plated	33 00	36 00			
Perry self closing bibbs, flanged, finished	32 00	35 00			
Perry self closing bibbs, flanged, nickel plated	39 00	42 00			
Perry self closing bibbs, flange, nut, and coupling, finished	41 00	48 50			
Perry self closing bibbs, flange, nut, and coupling, nickel plated	48 00	55 50			

FULLER WORK

Size	1/2	5/8	3/4	1
Plain bibbs, finished, lead or iron pipe, per doz.	21 00	27 00	36 00	72 00
Plain bibbs, nickel plated, lead or iron pipe, per doz.	25 20	31 20	42 00	80 40
Plain bibbs, finished, iron pipe S. O. T., per doz.	24 00	31 20	42 00	80 40
Plain bibbs, nickel plated iron pipe S. O. T., per doz.	28 20	35 40	48 00	88 80
Plain bibbs, finished, solid flange, iron pipe, per doz.	28 80	36 60	47 40	89 40
Plain bibbs, nickel plated, solid flange, iron pipe, per doz.	34 80	42 60	55 20	99 60
Plain bibbs, finished solid flange and thimble, lead pipe, per doz.	32 40	40 80	52 20	96 60
Plain bibbs, nickel plated, solid flange and thimble, lead pipe, per doz.	38 40	46 80	60 00	106 80
Plain sink bibbs, long snout, finished, iron pipe, per doz.			50 40	
Plain sink bibbs, long snout, nickel plated, iron pipe, per doz.			56 40	
Plain sink bibbs, long snout, with flange nut and thimble, per doz.			81 00	
Plain bibb, finished adjustable flange, nut, and bent coupling	46 20	58 20	76 20	150 00
Plain bibb, nickel plated, adjustable flange, nut, and bent coupling	52 20	64 20	84 00	160 20
Plain bibb, finished solid flange, nut, and bent coupling	42 00	54 00	72 00	144 00
Plain bibb, nickel plated, solid flange, nut, and bent coupling	48 00	60 00	79 80	154 20
Add for hose end	4 20	4 20	4 20	8 40
Wash tray bibbs, finished, lead or iron pipe	23 40	30 60	40 80	
Wash tray bibbs, nickel plated, lead or iron pipe	27 60	34 80	46 80	
Wash tray bibbs, finished, flange, iron pipe	31 20	40 20	52 20	
Wash tray bibbs, nickel plated, flange iron pipe	37 20	46 20	60 00	
Wash tray bibbs, finished flange and thimble	34 80	44 40	57 00	
Wash tray bibbs, nickel plated, flange and thimble	40 80	50 40	64 80	
Wash tray bibbs, finished, solid flange, nut, and bent coupling	44 40	57 60	76 80	
Wash tray bibbs, nickel plated, solid flange, nut, and bent coupling	50 40	63 60	84 60	
Fuller stop, finished, lead or iron pipe	21 00	27 00	36 00	72 00
Fuller stop, nickel plated, lead or iron pipe	25 20	31 20	42 00	80 40
Fuller basin cocks, No. 0, finished or nickel plated, per doz.	39 00			
Fuller basin cocks, No. 0, with union finish or nickel plated, per doz.	51 00			
Fuller basin cocks, No. 1, per doz.	42 00			
Fuller basin cocks, No. 2, per doz.	45 00			
Fuller basin cocks, No. 3, per doz.	51 00			
Fuller basin cocks, add for china handles, per doz.	19 80			
Fuller pantry cocks, No. 1, finished or nickel plated, plain, per doz.	42 00			
Fuller pantry cocks, No. 1, finished or nickel plated, hose end, per doz.	45 00			
Fuller pantry cocks, No. 2, finished or nickel plated, plain, per doz.	51 00			
Fuller pantry cocks, No. 2, finished or nickel plated, hose end, per doz.	54 00			
Fuller pantry cocks, double, finished or nickel plated, each	13 25			
Add for china handles, per doz.	18 80			

DRAWN LEAD TRAPS AND BENDS

Weight of lead per running foot, lbs. Size		LIGHT WEIGHT					MED. WEIGHT			EXTRA HEAVY WEIGHT				
		1½ 1½	2¼ 1½	3¼ 2	5 3	6 4	2 1½	3 1½	4 2	2½ 1½	3½ 1½	4½ 2	6 3	8 4
Full S	Regular	58	90	1 38	2 69	3 25	73	1 03	1 65	87	1 25	1 85	3 09	4 30
	Regular vented	1 38	1 85	2 33	3 94	4 50	1 53	1 98	2 60	1 67	2 20	2 80	4 34	5 55
	Extra long	93	1 36	2 00			1 19	1 64	2 40	1 44	1 95	2 69		
¾ S	Regular	55	81	1 30	2 62	3 07	66	94	1 53	81	1 15	1 73	2 97	3 95
	Regular vented	1 35	1 76	2 25	3 87	4 32	1 46	1 89	2 48	1 61	2 10	2 68	4 22	5 20
	Extra long	85	1 19	1 76			1 04	1 43	2 08	1 28	1 72	2 33		
½ S or P	Regular	51	75	1 20	2 24	2 49	64	87	1 42	77	1 09	1 57	2 58	3 25
	Regular vented	1 31	1 70	2 15	3 49	3 74	1 44	1 82	2 37	1 57	2 04	2 52	3 83	4 50
	Extra long	76	1 02	1 55			95	1 22	1 83	1 14	1 50	2 02		
Running	Regular	48	72	1 13	2 09	2 53	58	87	1 32	70	1 03	1 46	2 35	3 28
	Regular vented	1 28	1 67	2 08	3 34	3 78	1 38	1 82	2 27	1 50	1 98	2 41	3 60	4 53
	Extra long	82	1 15	1 67			1 01	1 41	1 98	1 23	1 65	2 18		
	Regular	68	1 08	1 73	3 35	4 77	87	1 28	2 08	1 06	1 54	2 33	3 96	6 30
Bag	Regular vented	1 48	2 03	2 68	4 60	6 02	1 67	2 23	3 03	1 86	2 49	3 28	5 21	7 55
	*Extra lohg	1 09	1 58	2 34			1 38	1 91	2 80	1 67	2 24	3 11		
Long bend	.....	30	50	78	1 39	1 95	41	66	1 00	50	79	1 05	1 60	2 40
Short bend	.....	25	38	57	1 09	1 50	31	51	69	34	62	80	1 21	1 84

Two inch vented traps listed above have 1½ inch vents, for 2 inch vent add thirty cents to list.

*Extra long bag traps are made with long inlet only.

EXTENSION BENDS

Weight of lead per run. foot, lbs. Size		LIGHT WEIGHT					MED. WEIGHT			EXTRA HEAVY WEIGHT				
		1½ 1½	2¼ 1½	3½ 2	5 3	6 4	2 1½	3 1½	4 2	2½ 1½	3½ 1½	4½ 2	6 3	8 4
Short inlet end by 12 inches		40	56	79	1 39	1 70	52	75	99	60	90	1 08	1 57	2 09
Short inlet end by 15 inches		47	67	94	1 65	2 00	62	89	1 17	72	1 07	1 28	1 87	2 45
Short inlet end by 18 inches		55	77	1 09	1 90	2 30	72	1 03	1 36	84	1 24	1 49	2 16	2 81
Short inlet end by 20 inches		60	84	1 19	2 07	2 48	79	1 12	1 49	92	1 35	1 63	2 35	3 04
Long inlet end by 12 inches		46	67	99	1 73	2 15	60	89	1 24	70	1 07	1 35	1 96	2 62
Long inlet end by 15 inches		54	77	1 14	1 99	2 44	70	1 03	1 42	82	1 24	1 56	2 25	2 98
Long inlet end by 18 inches		62	88	1 29	2 24	2 73	80	1 17	1 61	92	1 41	1 76	2 54	3 34
Long inlet end by 20 inches		67	95	1 39	2 42	2 92	87	1 26	1 74	1 02	1 52	1 90	2 74	3 58
For extension bends longer than above add to nearest listed size for each additional inch		3¼ 3½	4½ 4	6¼ 4	10¼ 4½	12 5½	4¼ 6		7¼ 7½	5	7	8½	12	15
Length of short inlet end, inches		3½	4	4	4½	5½								
Length of long inlet end, inches		6	7	7½	8¼	10								

In ordering be careful to state weight desired.

COMMON SENSE CLEANOUTS — To Caulk into Hub. Brass Screw

Size	2	3	4	5	6
List, each	30	40	50	90	1 20

BOSTON REGULATION IRON BODY CLEANOUT

Brass Screw. Prices on Application.

DANDY IRON CLEANOUTS

Size	2	3	4	5	6
Standard	75	1 00	1 40	1 80	2 20
Extra heavy	1 00	1 25	1 65	2 10	2 50

BARRETT IRON CLEANOUTS

Size	2	3	4	5	6	8	10	12
Standard	1 00	1 35	1 75	2 75	3 75			
Extra heavy	1 50	2 50	3 50	5 00	6 00	10 00	15 00	20 00

"ACME" BACK WATER SEWER VALVES AND CLEANOUTS

BACK WATER SEWER VALVES					CLEANOUTS						
Size	4	5	6	9	Size	2	3	4	5	6	9
Length over all	13	15	15½	21½	Standard.....	85	1 25	1 75	2 75	3 75	.....
Standard	5 50	7 50	9 50	.....	Extra heavy	1 70	2 50	3 50	5 00	6 00	30 00
Extra heavy	6 50	8 50	10 50	55 00							

BARRETT'S PATENT SEWER AND TIDE TRAPS, AND BACK WATER VALVE

Size	3	4	5	6	8	10	12
Sewer and tide traps, standard and heavy ..	.....	11 00	14 00	15 00	50 00	75 00	100 00
O.D. back water gate valve	5 50	6 50	8 50	10 50	22 00	.....	.....

COPPER PANTRY SINKS

Size	12 x 18	12 x 20	14 x 16	14 x 20	14 x 24	16 x 24	16 x 30	18 x 30
Square bottoms	4 50	5 00	4 50	6 00	7 00	8 00	10 00	11 00
Oval bottom	6 00	6 50	6 00	7 50	9 00	10 00	12 00	13 00
Recessed and encased, with nickel plated standing waste and overflow	13 50	14 00	13 50	15 00	16 00	17 50	19 50	21 00

TABLE OF DIMENSIONS OF MARBLE SLABS
Square Slab with Back

LENGTH	WIDTH	HEIGHT OF BACK	CONTENTS IN SQUARE FEET
24 inches	20 inches	8 inches	5 feet, 5 inches
24 inches	20 inches	10 inches	5 feet, 10 inches
24 inches	20 inches	12 inches	6 feet, 2 inches
26 inches	20 inches	8 inches	5 feet, 10 inches
26 inches	20 inches	10 inches	6 feet, 3 inches
26 inches	20 inches	12 inches	6 feet, 7 inches
28 inches	20 inches	8 inches	6 feet, 3 inches
28 inches	20 inches	10 inches	6 feet, 8 inches
28 inches	20 inches	12 inches	7 feet, 2 inches
30 inches	20 inches	8 inches	6 feet, 8 inches
30 inches	20 inches	10 inches	7 feet, 2 inches
30 inches	20 inches	12 inches	7 feet, 7 inches
30 inches	22 inches	10 inches	7 feet, 6 inches
30 inches	22 inches	12 inches	8 feet, 0 inches
32 inches	22 inches	10 inches	8 feet, 0 inches
32 inches	22 inches	12 inches	8 feet, 6 inches
36 inches	22 inches	12 inches	9 feet, 6 inches

Square Slab with Back and One End

24 inches	20 inches	10 inches	7 feet, 2 inches
24 inches	20 inches	12 inches	7 feet, 10 inches
26 inches	20 inches	10 inches	7 feet, 7 inches
26 inches	20 inches	12 inches	8 feet, 3 inches
28 inches	20 inches	10 inches	8 feet, 1 inch
28 inches	20 inches	12 inches	8 feet, 9 inches
30 inches	20 inches	10 inches	8 feet, 6 inches
30 inches	20 inches	12 inches	9 feet, 4 inches
32 inches	22 inches	12 inches	10 feet, 4 inches
36 inches	22 inches	12 inches	11 feet, 4 inches

Corner Slabs with Two Backs

19 inches	19 inches	8 inches	5 feet, 4 inches
19 inches	19 inches	10 inches	5 feet, 10 inches
20 inches	20 inches	8 inches	5 feet, 9 inches
20 inches	20 inches	10 inches	6 feet, 4 inches
20 inches	20 inches	12 inches	6 feet, 11 inches
22 inches	22 inches	10 inches	7 feet, 3 inches
22 inches	22 inches	12 inches	7 feet, 10 inches
24 inches	24 inches	12 inches	8 feet, 10 inches
26 inches	26 inches	12 inches	10 feet, 0 inches

Prices on application

SPECIAL RECESSED DRAINAGE FITTINGS

Screwed for Wrought Iron Pipe

These fittings have an interior shoulder, and are made with same inside capacity as the inside diameter of the pipe, thus securing an unobstructed surface, allowing all solid matter to pass without choking up the pipes.

Size	1½	1½	2	2½	3	4	5	6	7	8	10
Elbows 5½ degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 11½ degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 22½ degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 45 degrees	45	50	60	90	1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 45 degrees long turn.....					1 45	2 25	4 00	5 75	9 50	11 00	13 50
Elbows 60 degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows, 90 degrees	45	50	60	90	1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows, 90 degrees long turn	55	60	70	1 10	1 30	2 00	3 60	5 20	8 50	10 00	12 00
Y bran. 45 deg. (red. same list) ..	75	80	1 00	1 50	1 70	2 60	3 50	5 50	12 00	15 00	21 00
Y bran. 45 deg. double (red. same list)	95	1 00	1 30	1 75	2 20	3 10	4 25	6 50	15 00	18 00	25 00
Y bran. 90 deg. tee pat. (red. same list)	1 00	1 15	1 35	1 90	2 25	3 50	5 50	7 00	11 50	14 50	20 00
Three-way elbows (red. same list) ..		1 00	1 30		2 20	3 10	4 25	6 50			
Tees, (reducing same list)		75	90	1 25	1 40	2 30	4 00	6 00	9 00	12 00	18 00
Crosses (reducing same list)		1 25	1 50		3 00	4 00	6 50	8 50			
Traps, ½ S.			2 25		3 00	4 50	7 50	14 00		22 00	
Traps, ¾ S.			3 50		4 00	6 50	10 00	20 00			
Traps, full S.			3 50		4 00	6 50	10 00	20 00			
Traps, running			2 40		3 50	5 00	8 00	15 00		25 00	
Reducing Y branches 60 degrees			90		1 70	2 60	4 50	7 00		15 00	
Increasers					1 00	1 50	2 00	3 00	4 00	5 00	
45 degree elbow with shoe			90		1 50	2 20	3 25	4 25			
Capping, for capping air inlet pipes					1 30	1 40	2 00				

ENAMELED IRON P. O. BOWLS

OVAL BOWLS			ROUND BOWLS			
	No. 1 14 x 17	No. 2 15 x 19		No. 1 12	No. 2 14	No. 3 16
Enameled all over	4 00	4 25	Enameled all over	3 00	3 25	4 00
Enameled inside only	3 00	3 25	Enameled inside only	2 00	2 25	3 00

ENAMELED IRON URINALS

CORNER URINALS			HALF CIRCLE FLAT BACK URINALS		
No. 1. Length of sides, 7 inches	1 75		No. 1. Width of back, 12 inches	2 50	
No. 2. Length of sides, 9 inches	2 25		No. 2. Width of back, 15 inches	3 00	
No. 3. Length of sides, 12 inches	2 75				

JULY 17, 1899

STANDARD AMERICAN SANITARY EARTHENWARE

BASINS						OVAL, ST. BACK BASINS			14 x 17	15 x 19														
ROUND BASINS						12	13	14	15	16	N. O.	P. O.	4 50	5 50										
N. O.	1 00	1 00	1 00	1 50	2 00	C. O.	1 00	1 00	1 00	1 50	2 00	P. O.	1 25	1 25	1 25	2 00	2 50	R. P.	1 50	1 50	1 50	2 50	3 00	
OVAL BASINS						14 x 17	15 x 19	16 x 21	N. O.	C. O.	P. O.	R. P.	2 50	3 50	4 50	2 50	3 50	4 50	3 00	4 00	5 00	3 50	4 50	5 50
SQUARE BASINS						14 x 17	15 x 19	N. O.	C. O.	P. O.	R. P.	5 00	6 00	5 00	6 00	5 50	6 50	6 00	7 00					
						14 x 17	15 x 19	N. O.	P. O.	4 50	5 00	5 50	6 00	Add to List for Embossing, 1 00				Grinding Round Basins.....	10 cents net extra	Grinding Oval Basins	15 cents net extra			

STANDARD AMERICAN SANITARY EARTHENWARE — Continued

Bedfordshire Urinals

Bedfordshire Urinals, No. 1 Flat	8 00
Bedfordshire Urinals, No. 2 Flat	6 00
Bedfordshire Urinals, No. 3 Flat	5 00
Bedfordshire Urinals, No. 1 Corner	8 00
Bedfordshire Urinals, No. 2 Corner	6 00
Bedfordshire Urinals, No. 3 Corner	5 00
Bedfordshire Urinals, No. 1 Flat, with Lip	10 00
Bedfordshire Urinals, No. 2 Flat, with Lip	8 00
Bedfordshire Urinals, No. 3 Flat, with Lip	7 00
Bedfordshire Urinals, No. 1 Corner, with Lip	10 00
Bedfordshire Urinals, No. 2 Corner, with Lip	8 00
Bedfordshire Urinals, No. 3 Corner, with Lip	7 00
No. 1 F. B. Lipped, Hood, and Vent Urinals	12 00
No. 2 F. B. Lipped, Hood, and Vent Urinals	10 00
No. 1 Corner Lipped, Hood, and Vent Urinals	12 00
No. 2 Corner Lipped, Hood, and Vent Urinals	10 00
Grinding Urinals, 15 cents net extra	

Tall Hoppers

Oval, Tall F. R. Hoppers	6 50
Oval, Tall F. R. Hoppers, with Seat Vent	6 75
Oval, Tall F. R. Hoppers, with Hub Vent	7 00
Round, Tall F. R. Hoppers	5 00
Round, Tall F. R. Hoppers, with Seat Vent	5 25
Round, Tall F. R. Hoppers, with Hub Vent	5 50
Square, Tall F. R. Hoppers, 14 by 14 Vent	8 00
Square, Tall F. R. Hoppers, with Seat Vent	8 25
Square, Tall F. R. Hoppers, with Hub Vent	8 50
Square, Long F. R. Hoppers, 16 by 16	12 00
Philadelphia Hoppers	4 50

Short Hoppers

Oval, Short F. R. Hoppers	3 50
Oval, Short F. R. Hoppers, with Seat Vent	3 75
Round, Short F. R. Hoppers	2 50
Round, Short F. R. Hoppers, with Seat Vent	2 75
Square, Short F. R. Hoppers	5 00
Square, Short F. R. Hoppers, with Seat Vent	5 25

Combination Hoppers and Traps

Oval, Short Hoppers and Traps Combined	8 00
Oval, Short Hoppers and Traps Combined, Emb.	9 00
Square, Short Hoppers and Traps Combined	9 50
Square, Short Hoppers and Traps Combined, Emb.	10 50
Siphon Action Hoppers and Traps	8 50
Siphon Action Hoppers and Traps, Embossed	9 50
Siphon Hoppers, with Jet	10 00
Siphon Hoppers, with Jet, Embossed	11 00
Siphon Hoppers, with Reverse Trap	10 00

Closet Bowls and Sundries

Round, French Closet Bowls	2 25
Oval Closet Bowls	2 50
Round, F. R. Closet Bowls	2 50
Round, F. R. Closet Bowls, with Seat Vent	2 75
Ship Closet Basins, No. 1 and 2	2 00
Ship Plug Basins, 13 in. and 14 in.	1 50
Bidet Pan for Brass Plug	4 00
Bidet Pan for Brass Plug, with Overflow	4 25
Bidet Pan for Brass Plug, no Holes	4 00
Oval, F. R. Closet Bowls	3 25
Oval, F. R. Closet Bowls, with Seat Vent	3 50
Traps	3 00
Drip Trays, Oval and Round	3 50
Floats, Large (above 7 in.)	80
Floats, Small (under 7 in.)	60

Washouts, Plain

No. 1, Oval, Front Outlet	13 25
No. 1, Oval, Back Outlet	14 00
No. 2, Oval, Front Outlet	10 25
No. 2, Oval, Back Outlet	11 00
No. 3, Oval, Front or Back Outlet	8 00
Square, Front Outlet	17 00
Square, Back Outlet	18 00
No. 1, Square-back, Front Outlet	15 00
No. 1, Square-back, Back Outlet	16 00
No. 2, Square-back, Front Outlet	13 00
No. 2, Square-back, Back Outlet	14 00

Washouts, Embossed

No. 1, Oval, Front Outlet	14 25
No. 1, Oval, Back Outlet	15 00
No. 2, Oval, Front Outlet	11 25
No. 2, Oval, Back Outlet	12 00
No. 3, Oval, Front or Back Outlet	9 00
Square, Front Outlet	18 00
Square, Back Outlet	19 00
No. 1, Square-back, Front Outlet	16 00
No. 1, Square-back, Back Outlet	17 00
No. 2, Square-back, Front Outlet	14 00
No. 2, Square-back, Back Outlet	15 00

Pedestals, Plain

No. 1, Oval, Front Outlet	14 25
No. 2, Oval, Front Outlet	11 25
No. 3, Oval, Front Outlet	9 00
Square, Front Outlet	18 00
Square, Back Outlet	19 00
No. 1, Square-back, Front Outlet	16 00
No. 2, Square-back, Front Outlet	14 00
No. 1, Square-back, Back Outlet	17 00
No. 2, Square-back, Back Outlet	15 00

Pedestals, Embossed

No. 1, Oval, Front Outlet	15 25
No. 2, Oval, Front Outlet	12 25
No. 3, Oval, Front Outlet	10 00
Square, Front Outlet	19 00
Square, Back Outlet	20 00
No. 1, Square-back, Front Outlet	17 00
No. 2, Square-back, Front Outlet	15 00
No. 1, Square-back, Back Outlet	18 00
No. 2, Square-back, Back Outlet	16 00

Syphon Jet Closets

No. 1, Oval	22 00
No. 1, Oval, Embossed	23 00
No. 2, Oval (Staple)	17 00
No. 2, Oval (Staple), Embossed	18 00
No. 1, Square-back	24 00
No. 1, Square-back, Embossed	25 00
No. 2, Square-back	22 00
No. 2, Square-back, Embossed	23 00
No. 1, Square	24 00
No. 1, Square, Embossed	25 00
No. 2, Square	23 00
No. 2, Square, Embossed	24 00

Seat Attachments, net extra

NOTE.—Where goods are stamped with plumber's name, there will be a charge of the cost of engraving plate and 5 cents per each closet.

Metal Couplings

	Plain	Polished	Nickeled
$\frac{1}{2}$ in.	65	1 15	1 90
$\frac{3}{4}$ in.	65	1 15	1 90
1 in.	65	1 15	1 90
$1\frac{1}{4}$ in.	75	1 25	2 00
$1\frac{1}{2}$ in.	1 00	1 50	2 25
2 in.	1 40	1 90	2 60
$1\frac{1}{4}$ in. Slip Joints			1 00
$1\frac{1}{2}$ in. Slip Joints			1 25
2 in. Slip Joints			1 50
Hopper Clamps			25

NOTE.—Spuds and Jamb Nuts, one half above prices.

Packages.—Always net extra, as follows:

Packing Bulk Car	25 00
Crates	2 50
Hdhs., Extra Large	2 50
Hdhs., Large	2 00
Hdhs., Medium	1 25
Tierces, Large	1 00
Boxes	35
Barrels	35
Individual Crates	25

SPECIAL RECESSED DRAINAGE FITTINGS

Screwed for Wrought Iron Pipe

These fittings have an interior shoulder, and are made with same inside capacity as the inside diameter of the pipe, thus securing an unobstructed surface, allowing all solid matter to pass without choking up the pipes.

Size	1½	1½	2	2½	3	4	5	6	7	8	10
Elbows 5½ degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 11½ degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 22½ degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 45 degrees	45	50	60	90	1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows 45 degrees long turn					1 45	2 25	4 00	5 75	9 50	11 00	13 50
Elbows 60 degrees		50	60		1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows, 90 degrees	45	50	60	90	1 10	1 70	2 60	3 50	6 00	7 00	9 00
Elbows, 90 degrees long turn	55	60	70	1 10	1 30	2 00	3 60	5 20	8 50	10 00	12 00
Y bran. 45 deg. (red. same list)	75	80	1 00	1 50	1 70	2 60	3 50	5 50	12 00	15 00	21 00
Y bran. 45 deg. double (red. same list)	95	1 00	1 30	1 75	2 20	3 10	4 25	6 50	15 00	18 00	25 00
Y bran. 90 deg. tee pat. (red. same list)	1 00	1 15	1 35	1 90	2 25	3 50	5 50	7 00	11 50	14 50	20 00
Three-way elbows (red. same list)		1 00	1 30		2 20	3 10	4 25	6 50			
Tees, (reducing same list)		75	90	1 25	1 40	2 30	4 00	6 00	9 00	12 00	18 00
Crosses (reducing same list)		1 25	1 50		3 00	4 00	6 50	8 50			
Traps, ½ S.			2 25		3 00	4 50	7 50	14 00		22 00	
Traps, ¾ S.			3 50		4 00	6 50	10 00	20 00			
Traps, full S.			3 50		4 00	6 50	10 00	20 00			
Traps, running			2 40		3 50	5 00	8 00	15 00		25 00	
Reducing Y branches 60 degrees			90		1 70	2 60	4 50	7 00		15 00	
Increases					1 00	1 50	2 50	3 00	4 00	5 00	
45 degree elbow with shoe			90		1 50	2 20	3 25	4 25			
Capping, for capping air inlet pipes					1 30	1 40	2 00				

ENAMELED IRON P. O. BOWLS

OVAL BOWLS			ROUND BOWLS			
	No. 1 14 x 17	No. 2 15 x 19		No. 1 12	No. 2 14	No. 3 16
Enameled all over	4 00	4 25	Enameled all over	3 00	3 25	4 00
Enameled inside only	3 00	3 25	Enameled inside only	2 00	2 25	3 00

ENAMELED IRON URINALS

CORNER URINALS			HALF CIRCLE FLAT BACK URINALS		
No. 1. Length of sides, 7 inches		1 75	No. 1. Width of back, 12 inches		2 50
No. 2. Length of sides, 9 inches		2 25	No. 2. Width of back, 15 inches		3 00
No. 3. Length of sides, 12 inches		2 75			

JULY 17, 1899

STANDARD AMERICAN SANITARY EARTHENWARE

BASINS						OVAL, ST. BACK BASINS			14 x 17	15 x 19						
ROUND BASINS						12	13	14	15	16	N. O.	4 50	5 50			
						1 00	1 00	1 00	1 50	2 00	P. O.	5 00	6 00			
						1 00	1 00	1 00	1 50	2 00	ROUND ST. BACK BASINS			14	15	16
						1 25	1 25	1 25	2 00	2 50	N. O.	3 50	4 00	4 75		
						1 50	1 50	1 50	2 50	3 00	P. O.	4 00	4 50	5 25		
OVAL BASINS						14 x 17	15 x 19	16 x 21	OVAL, RECESS BASINS			14 x 17	15 x 19			
						2 50	3 50	4 50	N. O.	5 00	6 00					
						2 50	3 50	4 50	P. O.	5 00	6 50					
						3 00	4 00	5 00	ROUND, RECESS BASINS			14	15	16		
						3 50	4 50	5 50	N. O.	4 50	5 00	5 50				
SQUARE BASINS						14 x 17	15 x 19	Add to List for Embossing, 1 00			Grinding Round Basins.....	10 cents net extra				
						5 00	6 00				Grinding Oval Basins	15 cents net extra				
						5 00	6 00									
						5 50	6 50									
						6 00	7 00									

STANDARD AMERICAN SANITARY EARTHENWARE — Continued

Bedfordshire Urinals

Bedfordshire Urinals, No. 1 Flat	8 00
Bedfordshire Urinals, No. 2 Flat	6 00
Bedfordshire Urinals, No. 3 Flat	5 00
Bedfordshire Urinals, No. 1 Corner	8 00
Bedfordshire Urinals, No. 2 Corner	6 00
Bedfordshire Urinals, No. 3 Corner	5 00
Bedfordshire Urinals, No. 1 Flat, with Lip	10 00
Bedfordshire Urinals, No. 2 Flat, with Lip	8 00
Bedfordshire Urinals, No. 3 Flat, with Lip	7 00
Bedfordshire Urinals, No. 1 Corner, with Lip	10 00
Bedfordshire Urinals, No. 2 Corner, with Lip	8 00
Bedfordshire Urinals, No. 3 Corner, with Lip	7 00
No. 1 F. B. Lipped, Hood, and Vent Urinals	12 00
No. 2 F. B. Lipped, Hood, and Vent Urinals	10 00
No. 1 Corner Lipped, Hood, and Vent Urinals	12 00
No. 2 Corner Lipped, Hood, and Vent Urinals	10 00
Grinding Urinals, 15 cents net extra	

Tall Hoppers

Oval, Tall F. R. Hoppers	6 50
Oval, Tall F. R. Hoppers, with Seat Vent	6 75
Oval, Tall F. R. Hoppers, with Hub Vent	7 00
Round, Tall F. R. Hoppers	5 00
Round, Tall F. R. Hoppers, with Seat Vent	5 25
Round, Tall F. R. Hoppers, with Hub Vent	5 50
Square, Tall F. R. Hoppers, 14 by 14 Vent	8 00
Square, Tall F. R. Hoppers, with Seat Vent	8 25
Square, Tall F. R. Hoppers, with Hub Vent	8 50
Square, Long F. R. Hoppers, 16 by 16	12 00
Philadelphia Hoppers	4 50

Short Hoppers

Oval, Short F. R. Hoppers	3 50
Oval, Short F. R. Hoppers, with Seat Vent	3 75
Round, Short F. R. Hoppers	2 50
Round, Short F. R. Hoppers, with Seat Vent	2 75
Square, Short F. R. Hoppers	5 00
Square, Short F. R. Hoppers, with Seat Vent	5 25

Combination Hoppers and Traps

Oval, Short Hoppers and Traps Combined	8 00
Oval, Short Hoppers and Traps Combined, Emb.	9 00
Square, Short Hoppers and Traps Combined	9 50
Square, Short Hoppers and Traps Combined, Emb.	10 50
Siphon Action Hoppers and Traps	8 50
Siphon Action Hoppers and Traps, Embossed	9 50
Siphon Hoppers, with Jet	10 00
Siphon Hoppers, with Jet, Embossed	11 00
Siphon Hoppers, with Reverse Trap	10 00

Closet Bowls and Sundries

Round, French Closet Bowls	2 25
Oval Closet Bowls	2 50
Round, F. R. Closet Bowls	2 50
Round, F. R. Closet Bowls, with Seat Vent	2 75
Ship Closet Basins, No. 1 and 2	2 00
Ship Plug Basins, 13 in. and 14 in.	1 50
Bidet Pan for Brass Plug	4 00
Bidet Pan for Brass Plug, with Overflow	4 25
Bidet Pan for Brass Plug, no Holes	4 00
Oval, F. R. Closet Bowls	3 25
Oval, F. R. Closet Bowls, with Seat Vent	3 50
Traps	3 00
Drip Trays, Oval and Round	3 50
Floats, Large (above 7 in.)	80
Floats, Small (under 7 in.)	60

Washouts, Plain

No. 1, Oval, Front Outlet	13 25
No. 1, Oval, Back Outlet	14 00
No. 2, Oval, Front Outlet	10 25
No. 2, Oval, Back Outlet	11 00
No. 3, Oval, Front or Back Outlet	8 00
Square, Front Outlet	17 00
Square, Back Outlet	18 00
No. 1, Square-back, Front Outlet	15 00
No. 1, Square-back, Back Outlet	16 00
No. 2, Square-back, Front Outlet	13 00
No. 2, Square-back, Back Outlet	14 00

Washouts, Embossed

No. 1, Oval, Front Outlet	14 25
No. 1, Oval, Back Outlet	15 00
No. 2, Oval, Front Outlet	11 25
No. 2, Oval, Back Outlet	12 00
No. 3, Oval, Front or Back Outlet	9 00
Square, Front Outlet	18 00
Square, Back Outlet	19 00
No. 1, Square-back, Front Outlet	16 00
No. 1, Square-back, Back Outlet	17 00
No. 2, Square-back, Front Outlet	14 00
No. 2, Square-back, Back Outlet	15 00

Pedestals, Plain

No. 1, Oval, Front Outlet	14 25
No. 2, Oval, Front Outlet	11 25
No. 3, Oval, Front Outlet	9 00
Square, Front Outlet	18 00
Square, Back Outlet	19 00
No. 1, Square-back, Front Outlet	16 00
No. 2, Square-back, Front Outlet	14 00
No. 1, Square-back, Back Outlet	17 00
No. 2, Square-back, Back Outlet	15 00

Pedestals, Embossed

No. 1, Oval, Front Outlet	15 25
No. 2, Oval, Front Outlet	12 25
No. 3, Oval, Front Outlet	10 00
Square, Front Outlet	19 00
Square, Back Outlet	20 00
No. 1, Square-back, Front Outlet	17 00
No. 2, Square-back, Front Outlet	15 00
No. 1, Square-back, Back Outlet	18 00
No. 2, Square-back, Back Outlet	16 00

Syphon Jet Closets

No. 1, Oval	22 00
No. 1, Oval, Embossed	23 00
No. 2, Oval (Staple)	17 00
No. 2, Oval (Staple), Embossed	18 00
No. 1, Square-back	24 00
No. 1, Square-back, Embossed	25 00
No. 2, Square-back	22 00
No. 2, Square-back, Embossed	23 00
No. 1, Square	24 00
No. 1, Square, Embossed	25 00
No. 2, Square	23 00
No. 2, Square, Embossed	24 00

Seat Attachments, net extra

NOTE.—Where goods are stamped with plumber's name, there will be a charge of the cost of engraving plate and 5 cents per each closet.

Metal Couplings

	Plain Polished Nickered		
$\frac{1}{2}$ in.	65	1 15	1 90
$\frac{3}{4}$ in.	65	1 15	1 90
1 in.	65	1 15	1 90
$1\frac{1}{4}$ in.	75	1 25	2 00
$1\frac{1}{2}$ in.	1 00	1 50	2 25
2 in.	1 40	1 90	2 60
$1\frac{1}{4}$ in. Slip Joints			1 00
$1\frac{1}{2}$ in. Slip Joints			1 25
2 in. Slip Joints			1 50
Hopper Clamps			25

NOTE.—Spuds and Jamb Nuts, one half above prices.

Packages.—Always net extra, as follows:

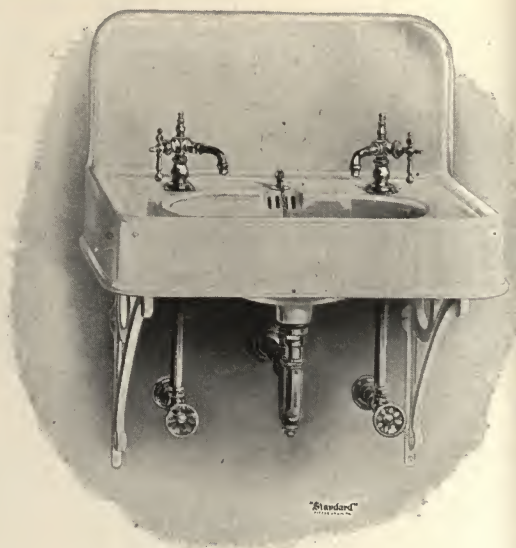
Packing Bulk Car	25 00
Crates	2 50
Hdhs., Extra Large	2 50
Hdhs., Large	2 00
Hdhs., Medium	1 25
Tierces, Large	1 00
Boxes	35
Barrels	35
Individual Crates	25

PORCELAIN ENAMELED IRON LAVATORIES



CRESCENT — Plate P 558

Width19 inches Bowl.....11 x 14 inches
Depth.....16 inches Height of back, 6 inches



OPHIR — Plate P 513

Plate P 558	17 00
Plate P 558 A, less faucets, supply pipes and trap	9 50
Plate P 558 B, enameled inside, as described	14 50
Plate P 558 C, enameled inside, less faucets, supply pipes and trap	7 00

Sizes	18 x 24	20 x 24	22 x 27
Plate P 513	29 50	33 25	37 50
Plate P 513 A, less faucets, supply pipes and trap	17 00	20 75	25 00
Plate P 513 B, enameled exterior as described	27 50	31 00	34 50
Plate P 513 C, enameled exterior, less faucets, supply pipes and trap	15 00	18 50	22 00



ANGLO — Plate P 531

Length on side, 19 inches. Bowl, 11 x 15 inches
Height of back, 8 inches



COPLEY — Plate P 500

Plate P 531	22 50
Plate P 531 A, less faucets, supply pipes and trap	12 75
Plate P 531 B, enameled exterior, as described	20 50
Plate P 531 C, enameled exterior, less faucets, supply pipes and trap	10 75

Sizes	18 x 27	22 x 33
Plate P 500	44 00	49 50
Plate P 500 A, less faucets, supply pipes and trap	30 50	36 00

CONNOLLY SADDLE HUBS

	TEES	Y'S		TEES	Y'S
2 x 2	40	45	5 x 2 }		
3 x 2	65	70	5 x 3 }	1 00	1 15
4 x 2 }			5 x 4 }		
4 x 3 }	80	90	6 x 2 }	1 40	1 55
4 x 4 }			6 x 3 }		
			6 x 4 }		

O. S. DISTRIBUTER FITTINGS

1 and 1 inch reducing	60	2 and 2 inch reducing	1 20
1½ and 1½ inch reducing	80	2½ and 2½ inch reducing	2 00
1½ and 1½ inch reducing	90		

COPPER PUMPS

Number	1 2½	2 2¾	3 3
Size, bore inches			
Price, plain	6 12	6 50	6 88
Price, with air chamber	8 25	8 75	9 25
Additional length, per foot	1 50	1 50	1 50
Pump fitted for iron pipe add	62	62	62
Pump fitted with brass plunger rod	50	50	50

COPPER PUMP REPAIRS

Pump tops, each	62	Copper top standards, per doz.	3 00
Pump brakes, each	62	Lower valves, per doz.	2 00
Pump rods, iron, each	25	Upper valves, per doz.	1 00
Pump rods, brass, each	50	Brake bolts, per doz.	36
Flange couplings, each	1 50	Piston bolts, per doz.	36
Band leathers, per doz.	75	Thumb screws, per doz.	36
Valve leathers, per doz.	36	Piston heads, per doz.	1 20
Rings, leathers, per doz.	1 20	Upper clasps, each	25
Upper boxes, each	60	Lower clasps, each	15
Lower boxes, each	60	Flange clasps, each	30
Iron top standards, per doz.	2 00	Iron pipe connections, each	62

IRON PITCHER PUMPS—Goulds, Union, or Douglas

Number	1 2½	2 3	3 3½	4 4	5 4½	6 5
Diameter cylinder, inches	2½	3	3½	4	4½	5
Suction pipe, inches	1	1¼	1¼	1½	1½	2½
Price	4 25	4 75	5 25	6 25	9 50	17 00

IRON CISTERN PUMPS—Goulds, Union, or Douglas

Number	0	1	2	3	4	5	6	8
Diameter cylinder, inches	2	2¼	2½	2¾	3	3¼	3½	4
Suction pipe, inches	1	1	1¼	1¼	1½	1½	1½	2
Price	3 50	4 00	4 50	5 00	5 50	6 50	8 00	10 00

EDSON DIAPHRAGM PUMPS

Number	2 2½	3 3	4 4
Size suction hose			
Price, bottom inlet	14 00	16 00	25 00
Price, side inlet	19 00	24 00	35 00
Suction hose, per foot	1 25	1 50	2 25
Couplings, per set	2 75	3 00	8 75
Strainers, flat	2 25	2 50	.....
Strainers, globe	3 50	3 50	.....
Strainers, galvanized .....	.....	.....	2 50
Diaphragms	2 00	2 00	2 90

GAS FITTER'S PROVING PUMPS

Pump gauge and ether cock, complete, with 4 feet of hose	15 00
Pump only, with 4 feet of hose	7 00
Gauge only	5 50
Ether cock only	3 00

PLUMBER'S FORCE PUMP

Each	6 00
------------	------

GALVANIZED CHECK VALVES

Size	¾	1	1¼	1½	2	2½	3	3½	4
Vertical	2 00	2 25	2 75	3 50	4 50	6 00	10 00	.....	.....
Horizontal	1 50	1 75	2 25	3 00	4 00	9 50	12 00	15 00	17 50

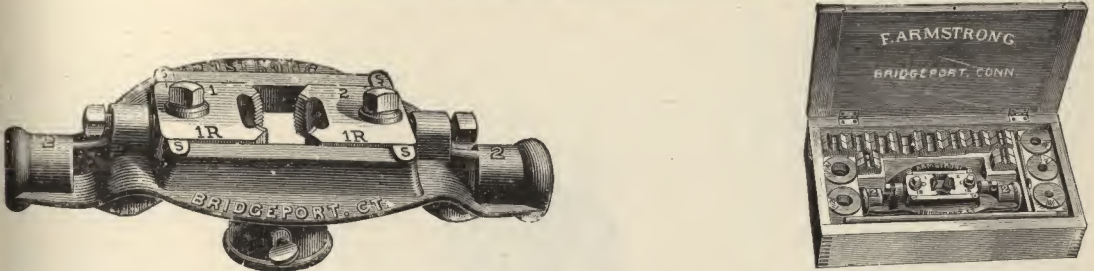
FEB. 10, 1876

PATENT SOLID DIE PLATES AND HILL'S PATENT SOLID DIES

Numbers	00	0	1	1½	1¾	2	3
	FOR BRASS PIPE					WITH LEADER SCREWS	
Dies furnished with each plate	5 3/4 1 & 1 1/4	1/8 to 1/2	1/4 to 1	3/4 1 & 1 1/4	1 1/4 & 1 1/2	1 1/4 1 1/2 & 2	2 1/2 & 3
Dimensions of dies in inches	2 x 1/2	2 x 1/2	2 1/2 x 3/4	3 x 3/4	3 x 3/4	4 x 7/8	5 x 1 1/4
Die plates with R. H. dies comp.	13 50	9 50	15 00	13 50	13 50	20 00	43 00
Die plates without dies	3 50	3 50	5 00	6 00	6 00	9 50	25 00
Extra dies, R. or L. hand	2 00	1 50	2 00	2 50	2 50	3 50	9 00
Extra bushings, each	25	25	35	45	45	60	1 00
Die frames, each	30	30	30	40	40	50	60

No. 3 plate, with four handles, without dies, 33 00; with dies, 51 00. No. 1 dies, for plumbers' brass pipe 2 50 each

ARMSTRONG'S ADJUSTABLE SOCKET AND DIES



Number	THREADS	COMPLETE	STOCK ONLY	EXTRA DIES	EXTRA BUSHINGS	EXTRA WRENCHES
No. 1, 4 dies, single end, R. H.	1 1/8 to 1 1/2	9 00	3 25	1 25	20	25
No. 1, 4 dies, single end, each, R. and L.	1 1/8 to 1 1/2	14 00	3 25	1 25	20	25
No. 2, 5 dies, single end, R. H.	1 1/4 to 1	12 00	4 00	1 50	25	25
No. 2, 5 dies, single end, each, R. and L.	1 1/4 to 1	20 00	4 00	1 50	25	25
No. 2 1/2, 4 dies, double end, R. H.	1 1/2 to 1 1/4	12 00	4 50	3 25	40	25
No. 2 1/2, 4 dies, double end, each, R. and L.	1 1/2 to 1 1/4	18 00	4 50	3 25	40	25
No. 3, 3 dies, single end, R. H.	1 1/4 to 2	20 00	7 00	4 00	50	50
No. 3, 3 dies, single end, each, R. and L.	1 1/4 to 2	32 00	7 00	4 00	50	50
No. 4, 3 square dies, R. H.	1 1/4 to 2	18 00	7 00	3 00	50	---
No. 4, 3 square dies, each, R. and L.	1 1/4 to 2	27 00	7 00	3 00	50	---
No. 6, 2 dies, double end	2 1/2 and 3	40 00	25 00	15 00	1 00	50
No. 6, 2 dies, double end, each R. and L.	2 1/2 and 3	55 00	25 00	15 00	1 00	50
No. 7, 8 dies, double end	2 1/2 to 4	60 00	30 00	16 00	1 50	75
No. 7, 8 dies, double end, each, R. and L.	2 1/2 to 4	92 00	30 00	16 00	1 50	75

Number 2 dies for fine thread brass tubing, 2 00.

Prices for dies mean per set of 2 pieces.

NOTE.—Number 4 stock is a sectional stock, non-adjustable. Numbers 2 1/2, 6, and 7 stocks are fitted with double ended dies.

ROBBINS'S PATENT CHAIN TONGS

Number	2	3	4	5	6	7
Length of lever	2 ft. 3 in.	3 ft. 0 in.	4 ft. 0 in.	5 ft. 0 in.	6 ft. 0 in.	7 ft. 0 in.
Size of pipe	1 to 2	1 1/4 to 4	2 to 6	2 1/2 to 8	4 to 10	4 to 16
Price	5 50	6 25	9 00	12 50	16 00	30 00

VULCAN PATENT CHAIN TONGS

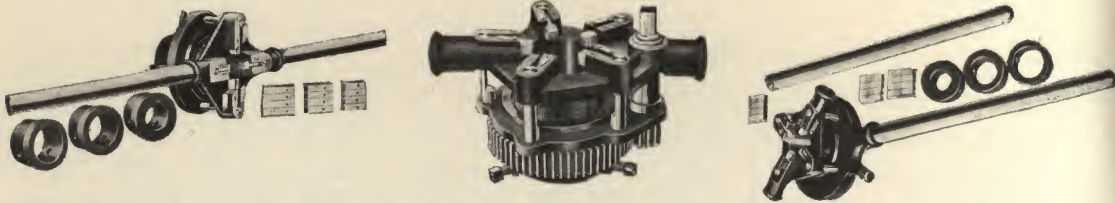
No.	10	11	12	13	13 1/2	14	15	16
Length, inches	13 3/4	20	27	37	44 1/2	50	64	87
For pipe	3/8 to 3/4	1/2 to 1 1/2	1/2 to 2 1/2	3/4 to 4	1 to 6	1 1/2 to 8	2 to 12	4 to 18
Each	2 50	3 50	5 00	7 00	9 00	11 00	18 00	40 00
Extra chains each	75	1 00	1 50	2 50	3 25	4 00	6 00	13 00
Extra jaws pair	1 00	1 75	2 75	4 00	4 75	5 50	7 50	16 00

GAS FITTERS' AUGERS

In ordering Augers, state Pipe-size.

Size of augers	5/8	3/4	7/8	1 1/4	1 1/2	1 3/4	2	2 1/2	3
Size of pipe	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Price, each	80	1 00	1 12	1 60	1 92	2 25	2 50	3 60	4 32

TOLEDO ADJUSTABLE PIPE THREADING DEVICES

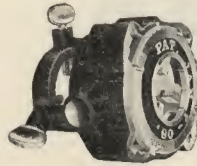


You will never have any trouble getting a perfect thread with same. It doesn't make any difference whether the pipe is steel or iron, hard or soft; whether the weld is perfect or not. They will never strip a thread, and never split a pipe.

They are adjustable for variations in fittings; they are the simplest tools imaginable. The price is reasonable. Try one or more of them. If you are not entirely satisfied, return to us.

No. 0. Threads $\frac{1}{8}$ to $\frac{3}{4}$ in. List	16 00
No. 1. Threads 1 to 2 in. List	24 00
No. 1A. (Ratchet) Threads 1 to 2 in. List	30 00
No. 2. Threads $2\frac{1}{2}$ to 4 in. List	100 00
No. 3. Threads $4\frac{1}{2}$ to 8 in. List	300 00
No. 4. Threads 9 to 12 in. List	500 00

One man can operate any of them.



TOLEDO NO. 10. CAPACITY 1 TO 2 INCHES

To satisfy a certain demand for modern "easy worker" threading tools, adjustable for threading four sizes of pipe with one set of dies, we present the Toledo No. 10, a new pipe threading tool, capacity 1 to 2 inches. List..... 28 00

TOLEDO NO. 25. CAPACITY $2\frac{1}{2}$ TO 6 INCHES

List.....\$230.00

STANWOOD'S PATENT PIPE CUTTERS

Number	1	2	3
Size of Pipe Cuts	$\frac{1}{8}$ to 1	$\frac{3}{4}$ to 2	2 to 3
Price, steel castings	1 50	2 75	7 00
Price, cutter wheels	12	18	25
Price, cutter blocks, with wheel	45	60	1 25
Price, pins	05	05	08

SAUNDERS'S WHEEL PIPE CUTTER

Number	1	2	3
Size of pipe cuts	$\frac{1}{8}$ to 1	1 to 2	2 to 3
Price, each	3 00	4 50	11 00
Extra cutter wheel, each	24	32	60
Extra cutter blocks and wheel, each	1 25	1 75	2 75
Extra cutter rollers, each	24	32	50
Extra pins	10	10	15

BARNES'S THREE-WHEEL PIPE CUTTER

Number	1	2	3	4	5	6	7
Size of pipe	$\frac{1}{8}$ to 1	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4	4 to 6	6 to 8	9 to 12
Price, each	4 50	6 00	10 00	20 00	30 00	40 00	50 00
Extra cutter wheels	25	30	40	50	75	75	75
Extra pins, per dozen	1 00	1 00	1 00	2 00	2 00	2 00	2 00



COE'S PATENT MONKEY WRENCH

Length	6	8	10	12	15	18	21
Price, black, per dozen	9 00	10 00	12 00	14 00	24 00	30 00	36 00
Price, bright, per dozen	11 50	12 50	15 00	19 00	30 00	36 00	42 00

GAS AND BURNER PLAYERS

Size, inches	5	6	7	8	9	10	11	12	13	14
Price	67	75	83	1 00	1 16	1 25	1 37	1 50	1 75	2 00

OCTOBER 1, 1902

TAPS, TONGS, AND DRILLS

Size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Taps	1 12	1 25	1 50	1 87	2 50	3 12	3 75	4 62	6 25	10 75	15 00	42 00	50 00
Tongs, common	60	65	70	75	90	1 10	1 30	1 50	1 90	2 50	4 00	4 50	6 00
Tongs, coil					1 75	2 00	2 40	3 00	3 75	4 75			
Drills	91	91	95	98	1 04	1 14	1 23	1 35	1 56	1 80	3 25		
Reamers		1 25	1 50	1 87	2 50	3 12	3 75	4 62	6 25	10 50	15 00		
Comb. tap reamer and drill		2 50	2 50	3 00	4 50	6 00	7 25	8 50	10 75				
Counterbores						2 90	3 00	3 25	3 50	4 25	5 00		

PLUMBER'S TOOLS

Bending pins, medium, doz.	2 90	Large	1 75	Saws, compass	50
Bending pins, ex. heavy, doz.	4 00	Kinking irons	33	Saws, hack	1 50
Bibb reseaters, each	2 00	Ladles, $2\frac{1}{2}$ in.	25	Saws, panel	75
Bossing sticks, each	75	3 in.	30	Shave hooks	25
Brushes, soil, each	06	$3\frac{1}{2}$ in.	35	Side edgers	50
Chipping knives, each	38	4 in.	45	Snips	2 50
Candle holders	25	5 in.	55	Snips, circular	2 50
Compasses, 6 inch, each	33	6 in.	75	Soil cups	50
Chisels, each	25	Levels, spirit	75	Soil, prepared	35
Caulking, straight, each	25	Mallets	45	Soldering coppers	
Caulking, R. and L., each	25	Moulds, tack	1 50 and 2 00	Straight, per lb.	50
Caulking, corner, each	35	Nippers, 6 inch	1 00	Hatchet	60
Yarning, each	25	Nippers, cutting	1 20	Tap borers	
Packing	50	Pot hooks	15	Philadelphia pattern	35
Cold, per lb.	50	Pots, solder		New York pattern	25
Diamond nose, each	33	5 in. diam.	25	Tapes	75
Dividers, 6 inch	50	6 in. diam.	33	Thawing steamers	5 50
Dressers, boxwood	95	7 in. diam.	70	Torches	2 00 to 3 50
Drift plugs	15	8 in. diam.	90	Turn pins, boxwood	
Files		9 in. diam.	1 25	Large	25
Force cups		10 in. diam.	1 80	Medium	20
No. 1	50	12 in. diam.	2 80	Small	15
No. 2	75	Rasps, half round		Washer cutters	75
No. 3	1 00	10 in.	1 15	Wiping cloths	
Plumbers' friend	1 00	12 in.	1 60	Ticking	75
Grease boxes, brass		14 in.	2 15	Mole skin	1 00
Small	1 25	Sand plugs	33	Wrenches, basin.	1 25
Medium	1 50	Saws, double edged	75		

DIAMOND JOINT CEMENT



Put up in 10, 15, 25, and 50 lb. pails

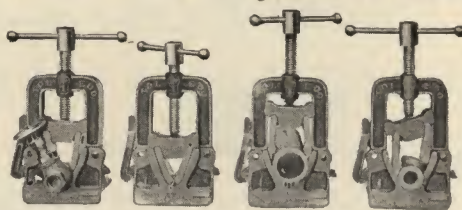
A first-class joint cement for Steam and Gas Fitters use.

Price, per lb. 20

"TOLEDO VISE"

A Hinged Vise that will hold anything. Made as well as we know how.

No. 1
 $\frac{1}{8}$ to 2 $\frac{1}{2}$ inch
 Pipe
 List Price
 10 00
 No. 2
 $\frac{1}{8}$ to 4 $\frac{1}{2}$ inch
 Pipe
 List Price
 20 00



It costs more,
 but is worth all
 it costs
 Jaws are Drop
 Forged from
 Die Steel
 The best tool
 for discriminating
 people

VICES

Pipe Vises. (W. Mfg. Co.'s Patent), 18.00.

Armstrong Combination Vise.— $\frac{1}{8}$ to 3 in., 16.00.

Armstrong Hinge Vise.—No. 1, $\frac{1}{8}$ to 2 $\frac{1}{2}$ in., 10.00; No. 2, $\frac{1}{2}$ to 4 $\frac{1}{2}$ in., 20.00.

Vanderman Combination Vise.—No. 1, $\frac{1}{8}$ to 7 in., 20.00; (with bending bushing, and comb. jaws).

Vanderman Combination Vise.—No. 2, $\frac{1}{8}$ to 7 in., 16.00; (with bending bushing, without comb. jaws).

Vanderman Hinge Vise.—No. 1, $\frac{1}{8}$ to 1 $\frac{1}{4}$ in., 4.50; No. 2, $\frac{1}{8}$ to 2 in., 5.50.

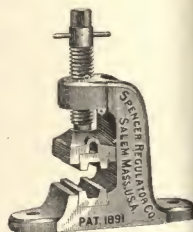
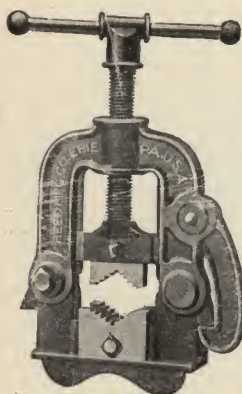
Smith's Combination Vise.—No. 1, $\frac{1}{8}$ to 2 in., 16.00; No. 2, $\frac{1}{2}$ to 3 in., 20.00; No. 3, $\frac{1}{4}$ to 4, 28.00.

Spencer Brass Pipe Vise.—No. 1, takes pipe $\frac{1}{8}$ to 2. Each 3.00.
Vise, with Angle Plate.—No. 1, $\frac{1}{8}$ to 2 in., 12.00; No. 2, $\frac{1}{2}$ to 3 in., 20.00.

Packer's Ratchet Drills.—No. 1, 10.50; No. 2, 13.50; No. 3, 16.00; No. 4, 19.00; No. 5, 23.00.

Moore's Ratchet Drills.—No. 1, 6.00; No. 2, 8.00; No. 3, 10.00; No. 4, 12.00.

Moore's Ratchet Wrenches.—No. 1, 3.00; No. 2, 4.00; No. 3, 5.00; No. 4, 7.00.



MALLEABLE IRON KIT PIPE VISES

No.	Capacity	List
0 K	$\frac{1}{8}$ to 2 inch pipe	10 00 Each
1 K	$\frac{1}{8}$ to 2 $\frac{1}{2}$ " "	14 00 "
2 K	$\frac{1}{4}$ to 3 $\frac{1}{2}$ " "	20 00 "

BRASS PIPE WRENCH

12 inch $\frac{1}{8}$ to 2 inch pipe	1 50	18 inch 1 to 5 inch pipe	2 50
Extra straps	25	Extra straps	50

"BOSTON"

Water-Pressure Regulator

SPECIAL FEATURES

WATER pressure opens and closes the Regulator automatically, independent of the spring.

Spring tension is only to increase the house pressure, or when using a direct flushing valve.

Valve opens with the pressure, closes without hammer, and is also adapted to direct pressure valves.

It has fewer parts, is simpler, and gives a larger free flow under a given pressure than any other regulator.

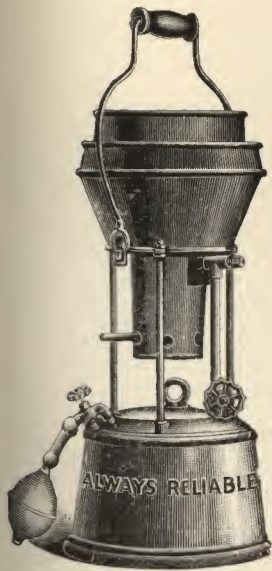
The packings are specially prepared to last for many years.

PRICE LIST. Lead or Iron Pipe.

Size, inches		Size, inches	
$\frac{1}{8}$	\$8 50	2	\$40 00
$\frac{3}{8}$	8 50	2 $\frac{1}{2}$	55 00
1	13 00	3	70 00
1 $\frac{1}{4}$	17 50	4	90 00
1 $\frac{1}{2}$	24 00		

RELIEF VALVES are furnished when ordered at 50 cents each, net

GASOLENE BLAST FURNACES AND TORCHES



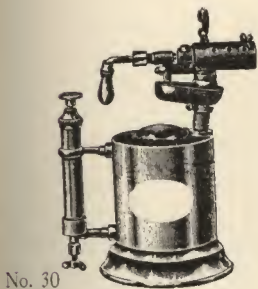
PLUMBERS' COIL FURNACE FOR GASOLENE

	Price
Furnace with bulb and one shield, each	3 75
Furnace with bulb and two shields, each	4 00
Furnace with pump and one shield, each	4 00
Furnace with pump and two shields, each	4 25
Furnace with bulb and with one No. 1 shield (for 5-inch solder pot) always furnished unless otherwise ordered.	

For price list of repair parts, see next page.

Burner EACH .10¢	Connecting Pipe EACH .00¢	Coil EACH 40¢	Coil Cup EACH 30¢	Ell EACH 6¢
Filling Screw EACH 15¢	Handle Ear EACH 5¢	Handle EACH 25¢	Nuts No 1 1192 EACH 2¢	Valve EACH 45¢
Air Valve EACH 30¢	Plug EACH 6¢	Reservoir EACH 1.80	Bulb EACH 35¢	Shield No. 10 No. 2 EACH 50¢
No 3 Shield EACH 55.00	Tee EACH 6¢	Top Plate EACH 20¢	Upright EACH 8¢	Wire for Coil EACH .05¢

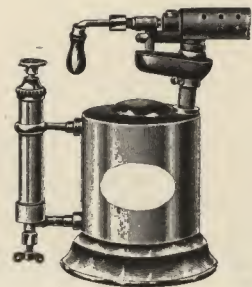
REPAIRS FOR COIL FURNACE



No. 30
HOT BLAST BLOW
TORCH WITH SOLDERING IRON HOLDER
Price, 3 50



No. 5
HOT BLAST FURNACE
Price 4 50



No. 29
HOT BLAST BLOW TORCH
Price 3 25

SOAPSTONE KITCHEN SINKS

LENGTH	PLAIN	6 IN. H. B.	12 IN. H. B.
24 inch	8 00	9 20	10 40
30 inch	10 00	11 50	13 00
36 inch	13 00	14 80	16 60
42 inch	15 00	17 10	19 20
48 inch	18 00	20 40	22 80

SOAPSTONE LAUNDRY TRAYS

LENGTH	COMPARTMENTS	PLAIN	6 IN. H. B.	12 IN. H. B.
24 inch	One	12 00	13 10	14 20
42 inch	Two	21 00	23 28	25 56
48 inch	Two	23 00	25 60	28 20
72 inch	Three	37 00	41 20	45 40

SLATE LAUNDRY TRAYS

2 part, 48 x 24 inches	13 00
3 part, 72 x 24 inches	18 00

12 inches deep inside

High back drain boards 75 cents per foot extra.

SLATE SINKS

30 inches long	7 00
36 inches long	8 00
42 inches long	9 00
48 inches long	10 00

18 in., 20 in., 22 in., 24 in. wide; 6 in. deep.

FUELS, RATINGS, ETC.

NOTE.—Ratings are based on the use of hard coal, because it has uniform heat-making qualities.

No standard ratings can be made based on the soft or lignite fuels, because their heat-making values differ so widely. One cubic foot of hard coal weighs about fifty pounds, while a cubic foot of soft coal weighs about forty pounds. Consequently any soft coal having a heat-making value equal to hard coal requires a boiler with twenty-five per cent more coal-holding capacity to hold an equal weight of fuel. And when coal with a lower heat-making value is to be used, a boiler having a *fire-pot* of correspondingly larger fuel-holding capacity should be selected.



Caking soft coals have a much higher heating power than coals which are free burning or non-caking.

The ratings provide that all piping, in addition to the direct radiation to be used, shall be figured as radiating surface in estimating the size of the boiler required.

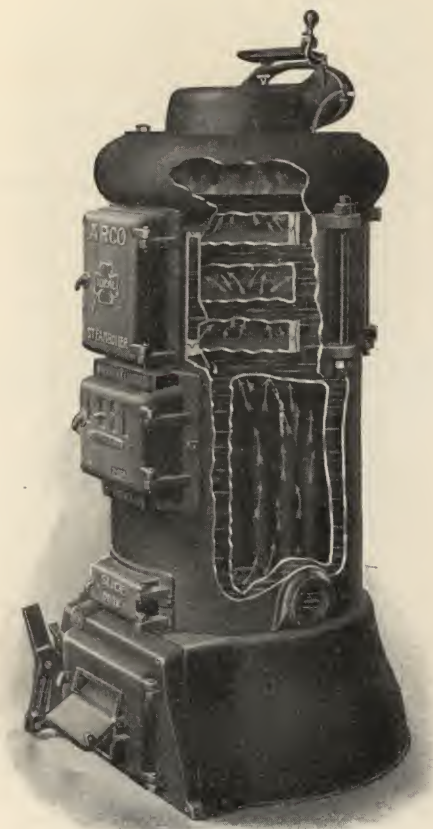
These ratings are for direct radiation. When any other heating surface is to be supplied, increase boiler capacity according to the demand. It is understood that the water leaving the boiler will be 190 degrees Fahrenheit.

These boilers are guaranteed only to the extent of furnishing new castings for any found defective in manufacture. On account of the varying conditions surrounding their installation we do not guarantee our boilers otherwise.

IDEAL STANDARD WATER BOILERS
Measurements, Ratings, and List Prices

No.	Height to Top Outlet Inches	Diameter of Base Inches	Diameter of Grate Inches	Outlet and Inlet Inches	Smoke Pipe Inches	Ratings (See Note)	List Prices
15-1-W	43 $\frac{3}{4}$	27 $\frac{3}{4}$	15	1-3 inch	7	350	101 00
17-1-W	41 $\frac{1}{4}$	28 $\frac{1}{4}$	17	1-3 inch	7	375	105 00
17-2-W	45 $\frac{1}{4}$	28 $\frac{1}{4}$	17	1-3 inch	7	425	123 00
17-3-W	49 $\frac{1}{4}$	28 $\frac{1}{4}$	17	1-3 inch	7	475	136 00
19-1-W	42	30 $\frac{1}{2}$	19	1-3 inch	8	550	153 50
19-2-W	46	30 $\frac{1}{2}$	19	1-3 inch	8	650	184 00
19-3-W	50	30 $\frac{1}{2}$	19	1-3 inch	8	750	197 00
22-1-W	44	35	22	1-4 inch	9	725	194 00
22-2-W	48 $\frac{1}{2}$	35	22	1-4 inch	9	800	201 00
22-3-W	53	35	22	1-4 inch	9	875	217 50
22-4-W	57 $\frac{1}{2}$	35	22	1-4 inch	9	950	230 00
25-1-W	45	38	25	1-4 inch	10	1025	270 00
25-2-W	49 $\frac{1}{2}$	38	25	1-4 inch	10	1150	290 00
25-3-W	54	38	25	1-4 inch	10	1250	307 00
25-4-W	58 $\frac{1}{2}$	38	25	1-4 inch	10	1350	325 00
28-1-W	47	41 $\frac{1}{2}$	28	1-5 inch	11	1300	318 00
28-2-W	52	41 $\frac{1}{2}$	28	1-5 inch	11	1400	336 00
28-3-W	57	41 $\frac{1}{2}$	28	1-5 inch	11	1500	350 00
28-4-W	62	41 $\frac{1}{2}$	28	1-5 inch	11	1600	372 50
31-1-W	48	44 $\frac{1}{2}$	31	1-5 inch	12	1425	340 00
31-2-W	53	44 $\frac{1}{2}$	31	1-5 inch	12	1575	365 00
31-3-W	58	44 $\frac{1}{2}$	31	1-5 inch	12	1750	398 00
31-4-W	63	44 $\frac{1}{2}$	31	1-5 inch	12	1900	424 00
34-1-W	49	48 $\frac{1}{2}$	34	1-6 inch	13	2000	438 00
34-2-W	54	48 $\frac{1}{2}$	34	1-6 inch	13	2175	472 00
34-3-W	59	48 $\frac{1}{2}$	34	1-6 inch	13	2350	501 50
34-4-W	64	48 $\frac{1}{2}$	34	1-6 inch	13	2500	530 50

One set of fire tools composed of one hoe, poker, and scraper is supplied with each boiler.



IDEAL ARCO STEAM BOILERS

Data, Ratings, and List Prices

Steam — Hard Coal

No.	Height (to top outlet) Inches	Diam. at Base Inches	Grate Area Sq. Ft.	Aver. Firepot Sq. Ft.	Height Water Line Inches	1 Outlet 2 Inlets Inches	Smoke Pipe Inches	Ratings	List Price Complete
2-19-S	57	30 $\frac{1}{2}$	1 76	1 84	50	2 $\frac{1}{2}$	8	350	167 00
3-19-S	61 $\frac{1}{2}$	30 $\frac{1}{2}$	1 76	1 84	54 $\frac{1}{2}$	2 $\frac{1}{2}$	8	400	193 00
2-22-S	58 $\frac{3}{4}$	35	2 40	2 53	53 $\frac{1}{2}$	3	9	525	226 00
3-22-S	63	35	2 40	2 53	56 $\frac{7}{8}$	3	9	575	240 00
2-25-S	61 $\frac{3}{4}$	38	3 14	3 20	54 $\frac{1}{4}$	3 $\frac{1}{2}$	9	625	277 50
3-25-S	66 $\frac{3}{4}$	38	3 14	3 20	59 $\frac{1}{4}$	3 $\frac{1}{2}$	9	700	300 00
2-28-S	62 $\frac{1}{2}$	41 $\frac{3}{8}$	4 12	4 30	56	4	10	900	360 50
3-28-S	67 $\frac{7}{8}$	41 $\frac{3}{8}$	4 12	4 30	61 $\frac{3}{4}$	4	10	1000	389 50
2-31-S	66	44 $\frac{1}{8}$	4 90	5 10	57 $\frac{1}{4}$	4	10	1275	470 00
3-31-S	71 $\frac{7}{8}$	44 $\frac{1}{8}$	4 90	5 10	63 $\frac{1}{4}$	4	10	1400	500 00
2-34-S	69	48 $\frac{7}{8}$	5 94	6 00	59 $\frac{3}{8}$	5	11	1500	530 00
3-34-S	75	48 $\frac{7}{8}$	5 94	6 00	65 $\frac{1}{2}$	5	11	1650	575 00

The following sizes of Steam Boilers with one intermediate section are specially suited to low chimneys, and for soft coal.

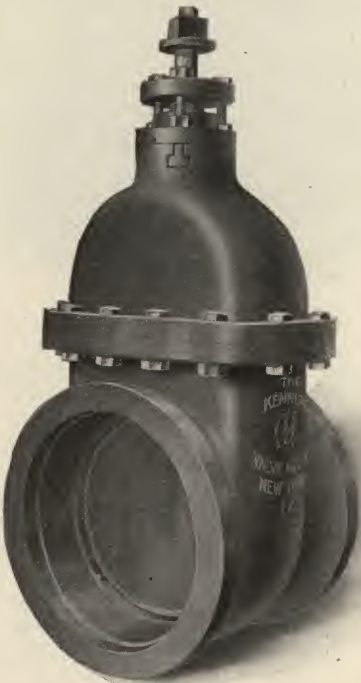
1-19-S	52 $\frac{1}{2}$	30 $\frac{1}{2}$	1 76	1 84	45 $\frac{1}{2}$	2 $\frac{1}{2}$	8	275	140 50
1-22-S	54 $\frac{3}{4}$	35	2 40	2 53	49	3	9	400	193 00
1-25-S	56 $\frac{1}{4}$	38	3 14	3 20	49 $\frac{1}{4}$	3 $\frac{1}{2}$	9	500	219 50
1-28-S	57 $\frac{1}{2}$	41 $\frac{3}{8}$	4 12	4 30	50	4	10	800	331 00
1-31-S	60 $\frac{3}{4}$	44 $\frac{1}{8}$	4 90	5 10	52 $\frac{1}{2}$	4	10	1000	389 50
1-34-S	64	48 $\frac{7}{8}$	5 94	6 00	54 $\frac{3}{4}$	5	11	1250	462 50

IDEAL ARCO WATER BOILERS—Data, Ratings, and List Price—Water—Hard Coal

No.	Height (to top outlet) Inches	Diam. at Base Inches	Grate Area Sq. Ft.	Aver. Firepot Sq. Ft.	Outlets No. and Size	Inlets No. and Size	Smoke Pipe Inches	Ratings	List Price Complete
2-19-W	50 ³ / ₈	30 ¹ / ₂	1 76	1 84	2-2 ¹ / ₂	2-2 ¹ / ₂	8	575	158 00
3-19-W	54 ³ / ₈	30 ¹ / ₂	1 76	1 84	2-2 ¹ / ₂	2-2 ¹ / ₂	8	650	184 50
2-22-W	52 ¹ / ₄	35	2 40	2 53	2-3	2-3	9	875	217 50
3-22-W	57 ¹ / ₄	35	2 40	2 53	2-3	2-3	9	950	230 00
2-25-W	55	38	3 14	3 20	2-3 ¹ / ₂	2-3 ¹ / ₂	9	1025	270 00
3-25-W	60	38	3 14	3 20	2-3 ¹ / ₂	2-3 ¹ / ₂	9	1150	290 00
2-28-W	55 ¹ / ₂	41 ³ / ₈	4 12	4 30	2-4	2-4	10	1500	350 50
3-28-W	60 ¹ / ₂	41 ³ / ₈	4 12	4 30	2-4	2-4	10	1650	380 00
2-31-W	59	44 ¹ / ₈	4 90	5 10	2-4	2-4	10	2100	457 50
3-31-W	64 ³ / ₄	44 ¹ / ₈	4 90	5 10	2-4	2-4	10	2325	495 00
2-34-W	61 ³ / ₈	48 ⁷ / ₈	5 94	6 00	2-5	2-5	11	2475	525 00
3-34-W	66 ³ / ₈	48 ⁷ / ₈	5 94	6 00	2-5	2-5	11	2725	565 00

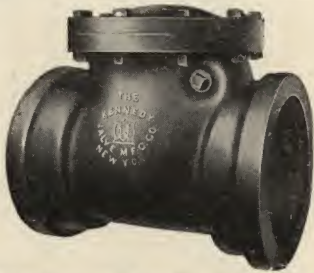
The following sizes of Water Boilers with one intermediate section are specially suited to low chimneys and for soft coal.

1-19-W	45 ⁷ / ₈	30 ¹ / ₂	1 76	1 84	2-2 ¹ / ₂	2-2 ¹ / ₂	8	450	131 50
1-22-W	48 ³ / ₄	35	2 40	2 53	2-3	2-3	9	650	184 00
1-25-W	50	38	3 14	3 20	2-3 ¹ / ₂	2-3 ¹ / ₂	9	825	210 50
1-28-W	50 ¹ / ₂	41 ³ / ₈	4 12	4 30	2-4	2-4	10	1325	321 00
1-31-W	54 ¹ / ₂	44 ¹ / ₈	4 90	5 10	2-4	2-4	10	1650	380 00
1-34-W	56 ¹ / ₂	48 ⁷ / ₈	5 94	6 00	2-5	2-5	11	2075	450 00



IRON BODY BRONZE MOUNTED GATE VALVES

Bell Ends for underground water mains.
Sizes 2 inches to 48 inches pieces on application.



IRON BODY BRONZE MOUNTED SWINGING CHECK VALVES—Bell Ends

Inches	3	4	5	6	8	10	12
	24 00	35 00	48 00	60 00	90 00	135 00	205 00

INVERTED KEY CURB COCKS

Round-way T Handle or Socket Head

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough stop, per doz.	30 00	39 00	50 40	72 00	118 20	171 00	300 00
Rough stop and waste, per doz.	30 60	39 60	51 00	73 20	120 00	174 00	306 00

INVERTED KEY COCKS WITH LEAD FLANGE COUPLINGS

ROUND-WAY

Stop, Lead Flange and I. P.

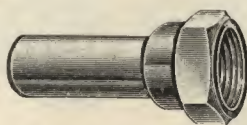
Stop, Lead Flange Both Ends

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough stop, per doz.	38 40	51 00	65 40	92 40	154 20	222 00	376 20
Rough stop, per doz.	46 80	63 00	80 40	112 80	190 20	273 00	452 40

Stop and Waste, Lead Flange and I. P.

Stop and Waste, Lead Flange, Both Ends

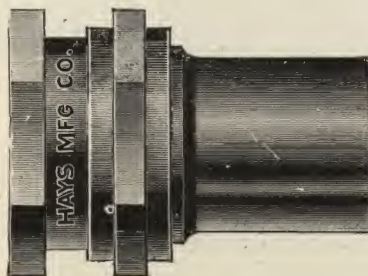
Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough stop and waste, per doz.	39 00	51 00	66 00	93 60	156 00	225 00	382 20
Rough and stop waste, per doz.	47 40	63 60	81 00	114 00	192 00	276 00	458 40



Half Soldering Union

HALF SOLDERING UNIONS

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Per doz.	4 20	4 20	4 80	6 00	8 40	12 00	15 00	21 00

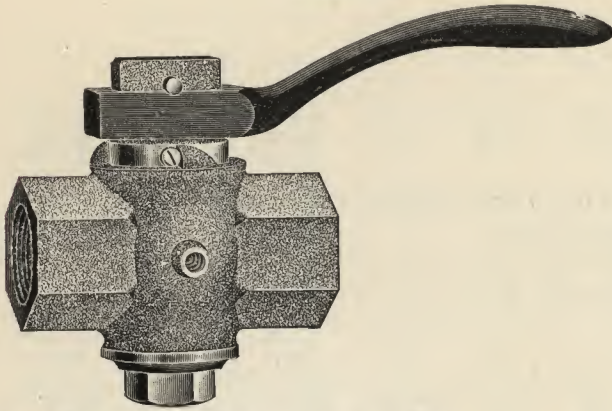


Ground Joint Union

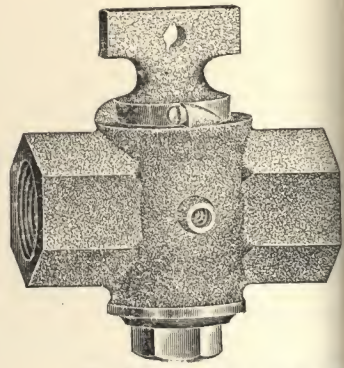
GROUND JOINT SOLDERING UNIONS

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	70	80	1 00	1 35	1 75	2 25	3 25

ROUND WAY COCKS, NEWPORT PATTERN



Lever Handle Stop and Waste. For Iron Pipe



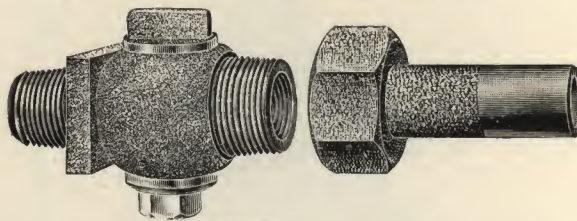
Tee Handle Stop and Waste

Size	Inches	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4} \times 1$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough "Newport" stop, per dozen		22 80	37 20	53 40	61 20	96 60	141 00	252 00
Rough "Newport" stop and waste, per dozen		23 40	37 80	54 00	62 40	98 40	144 00	258 00

"H" and "Newport" Pattern Stops for Lead Pipe Same List as Above

CORPORATION COCKS FOR PAYNE MACHINE

With $\frac{1}{8}$ bent coupling, for lead pipe

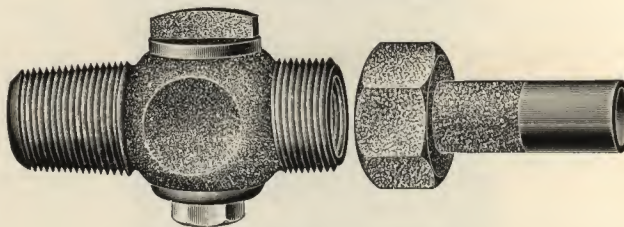


Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	1 50	1 60	2 25	2 85	4 50	10 00	15 00	24 00
Hex. on main end	1 65	1 75	2 50	3 20	5 00	10 75	16 00	25 50

$\frac{1}{4}$ bent or straight coupling same price.

CORPORATION COCKS FOR MUELLER MACHINE

With $\frac{1}{8}$ bent coupling for lead pipe



Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	1 50	1 60	2 25	2 85	4 50	10 00	15 00	24 00
Hex. on main end	1 65	1 75	2 50	3 20	5 00	10 75	16 00	25 50

$\frac{1}{4}$ bent or straight coupling same price.

CORPORATION COCKS

For Hall, Hubbell, Sperring, Boston, Lennox machine

Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	1 50	1 60	2 20	2 85	4 50	10 00	15 00	24 00
Hex. on main end	1 65	1 75	2 50	3 20	5 00	10 75	16 00	25 50

$\frac{1}{4}$ bent or straight coupling same price.

CORPORATION COCKS WITH LEAD FLANGE

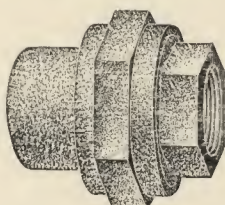
To connect with lead pipe without solder

For Mueller, Hall & Payne Machine

Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	2 00	2 15	2 95	3 75	5 70	12 25	18 25	28 85
Hex. on main end, each	2 15	2 30	3 20	4 10	6 20	13 00	19 25	30 35

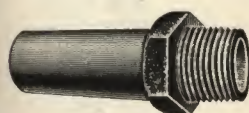
LEAD AND IRON FLANGE COUPLINGS

To connect lead with iron pipe without solder



Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	75	85	1 20	1 50	2 00	3 60	5 00	8 50

SOLDERING NIPPLES



STANDARD—Male



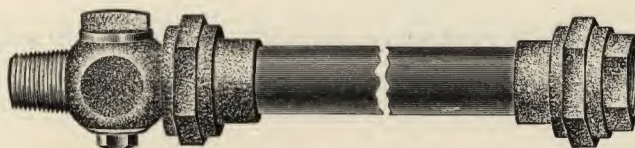
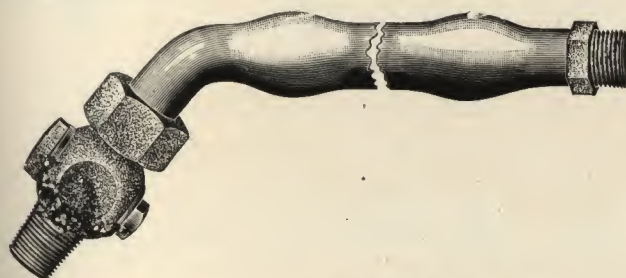
STANDARD—Female

Size	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4
Per doz.	3 00	3 00	3 60	5 40	7 20	10 80	12 60	18 00	33 00	48 00	81 00

LEAD GOOSE NECKS

Wiped joint ends with either male or female nipple or lead flange connections.

Specify corporation cock wanted.



Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Complete, doz.	43 20	51 60	63 00	75 00	111 00	186 00	288 00	432 00
Length lead pipe, inches	18	18	18	18	18	24	30	36
Weight per foot, extra strong lead pipe	2 lb.	2 lb. 8 oz.	3 lb.	3 lb. 8 oz.	4 lb.	6 lb.	7 lb. 8 oz.	9 lbs.
Weight per foot, extra strong lead pipe.....	2 lb. 8 oz.	3 lb.	3 lb. 8 oz.	4 lb.	5 lb. 8 oz.	6 lb. 12 oz.	9 lb.	10 lb. 8 oz.

BRASS WATER CONNECTIONS

TWO BRANCH

To solder 1 inch inlets, $1\frac{1}{4}$ inch outlet \$2 05
 Lead flange 1 inch inlets, $1\frac{1}{4}$ inch outlet 5 00

THREE BRANCH

1 inch inlets, $1\frac{1}{4}$ inch outlet \$3. 25
 1 inch inlets, $1\frac{1}{2}$ inch outlet 7 95

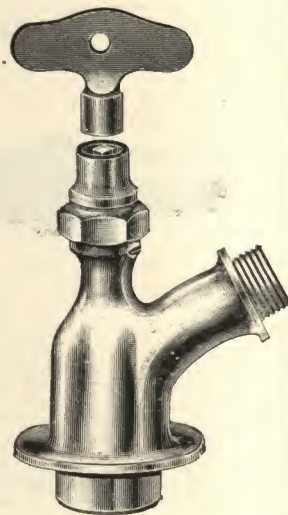
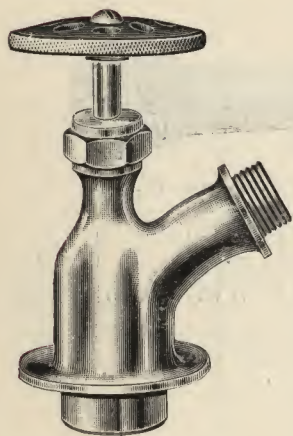
The area of these branches or inlets is equal to the area of the outlet.

BRASS PLUGS

Corporation Cock Thread

Size	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Each	25	25	35	40	50	1 05

COMPRESSION SILL COCKS



Size with brass wheel	$\frac{1}{2}$	$\frac{3}{4}$	Size	$\frac{1}{2}$	$\frac{3}{4}$
Finished, per doz.	27 60	27 60	Finished, per doz.	32 40	32 40
Nickel plated, per doz.	31 20	31 20	Nickel plated, per doz.	36 00	36 00
Nickel plated on the rough, per doz.	27 60	27 60	Nickel plated on the rough, per doz.	32 40	32 40

FLAT-WAY PATENT GUARD OR CAP STOPS AND STOP AND WASTE COCKS

Right or Left Hand, T or Lever Handle or Socket. Nut and Washer

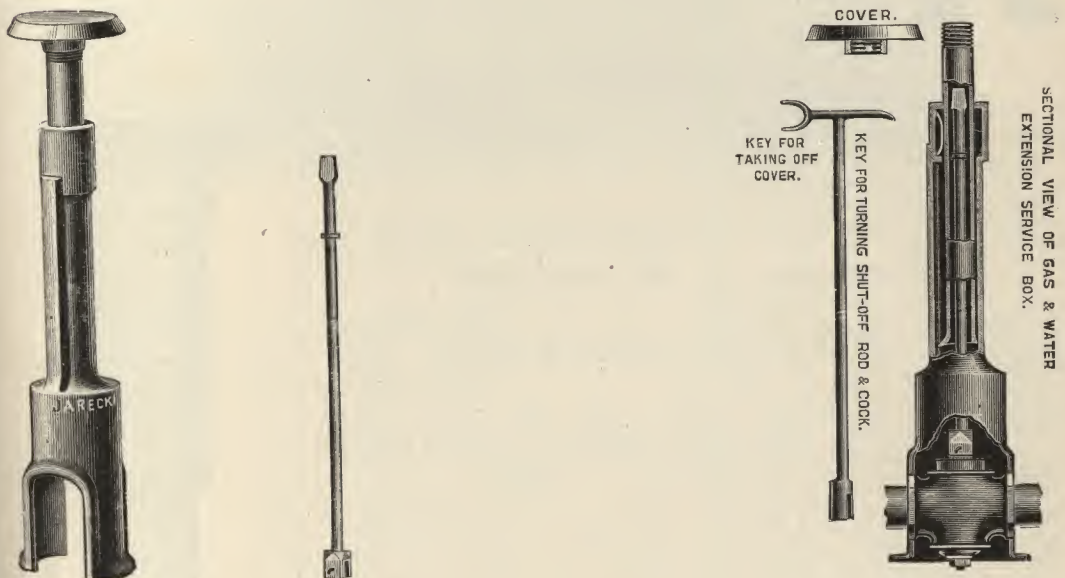
Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz.	17 40	18 60	25 80	30 60	42 00	70 20	105 00	186 00
Finished Stop, per doz.	21 60	22 80	30 60	36 60	51 00	82 20	123 00	210 00
Nickel plated stop, per doz.	25 80	27 00	35 40	42 60	60 00	94 20	141 00	234 00
Rough stop and waste, per doz.	18 00	19 20	26 40	31 20	43 20	72 00	108 00	192 00
Finished stop and waste, per doz.	22 20	23 40	31 20	37 20	52 20	84 00	126 00	216 00
Nickel plated stop and waste, per doz.	26 40	27 60	36 00	43 20	61 20	96 00	144 00	240 00

ROUNDWAY PATENT GUARD OR CAP STOPS AND STOP AND WASTES

Right or Left Hand, T or Lever Handle or Socket. Nut and Washer

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz.	23 40	31 20	39 60	60 00	97 20	141 00	252 00
Finished Stop, per doz.	27 60	36 00	45 60	69 00	109 20	159 00	276 00
Nickel Plated Stop, per doz.	31 80	40 80	51 60	78 00	121 20	177 00	300 00
Rough Stop and Waste, per doz.	24 00	31 80	40 20	61 20	99 00	144 00	258 00
Finished Stop and Waste, per doz.	28 20	36 60	46 20	70 20	111 00	162 00	282 00
Nickel Plated Stop and Waste, per doz.	32 40	41 40	52 20	79 20	123 00	180 00	306 00

"JARECKI" PATTERN EXTENSION SERVICE BOXES FOR WATER AND GAS



Size	Extension	No. 2 Box For $\frac{1}{2}$ in., $\frac{3}{4}$ in., and 1 in. cock	No. 3 Box For 1 in., $1\frac{1}{4}$ in., and $1\frac{1}{2}$ in. cock	No. 4 Box For $1\frac{1}{2}$ in. and 2 in. cock
$2\frac{1}{2}$ feet	$1\frac{1}{2}$ to $2\frac{1}{2}$ feet	1 00	1 15	1 20
3 feet	2 to 3 feet	1 05	1 20	1 30
$3\frac{1}{2}$ feet	$2\frac{1}{2}$ to $3\frac{1}{2}$ feet	1 10	1 25	1 40
4 feet	3 to 4 feet	1 15	1 30	1 50
$4\frac{1}{2}$ feet	$3\frac{1}{2}$ to $4\frac{1}{2}$ feet	1 20	1 35	1 60
5 feet	4 to 5 feet	1 25	1 40	1 70
$5\frac{1}{2}$ feet	$4\frac{1}{2}$ to $5\frac{1}{2}$ feet	1 30	1 45	1 80
6 feet	5 to 6 feet	1 35	1 50	1 90
$6\frac{1}{2}$ feet	$5\frac{1}{2}$ to $6\frac{1}{2}$ feet	1 40	1 55	2 00
7 feet	6 to 7 feet	1 45	1 60	2 10
$7\frac{1}{2}$ feet	$6\frac{1}{2}$ to $7\frac{1}{2}$ feet	1 50	1 65	2 20

Always specify whether covers are to be marked "Water" or "Gas."

THE BUFFALO NEW PATTERN EXTENSION SERVICE BOXES



This box is constructed in two sections, which screw together, forming one continuous pipe or box, easily adjusted exactly to the height and depth required and will remain set in position upright and firm as though made in one piece. The cover is secured with a brass bolt which will not corrode, and is therefore free at all times to be opened with proper key, thus avoiding the annoyance and expense heretofore experienced by covers being lost or stolen.

SIZE	EXTENSION	WEIGHT	SIZE	EXTENSION	WEIGHT
88	1 ft. stationary length	9 lbs. .55	93-E	3 ft. to 4 ft. 6 in.	22½ lbs. .83
89-A	1 ft. to 1 ft. 8 in.	12 lbs. .60	94-D	3 ft. 6 in. to 4 ft. 9 in.	23½ lbs. .85
90-B	1 ft. 6 in. to 2 ft. 2 in.	13½ lbs. .65	94-E	3 ft. 6 in. to 5 ft.	25 lbs. .90
91-C	1 ft. 9 in. to 3 ft. 9 in.	16½ lbs. .70	95-E	4 ft. to 5 ft. 6 in.	29 lbs. 1.00
92-C	2 ft. to 3 ft. 2 in.	18 lbs. .73	100-E	4 ft. 6 in. to 6 ft.	30½ lbs. 1.05
92-D	2 ft. to 3 ft. 6 in.	19½ lbs. .75	100-F	4 ft. 6 in. to 6 ft. 6 in.	32½ lbs. 1.10
93-D	3 ft. to 4 ft.	21 lbs. .80	95 G	4 ft. to 7 ft.	32½ lbs. 1.20
100-G		4 ft. 6 in. to 7 ft. 6 in.			1.25

EXTENSION SECTIONS

SIZE	EXTENSION	WEIGHT
151	Increasing length of Service Box 9½ in.	5 lbs. .35
152	Increasing length of Service Box 16½ in.	7 lbs. .40
153	Increasing length of Service Box 28 in.	10 lbs. .50
154	Increasing length of Service Box 33 in.	14 lbs. .55

THE BUFFALO SHUT-OFF VALVE BOXES FOR STREET MAINS

These are adjustable to length on same principle as the service box described above. They are made sufficiently strong to withstand the wear of the heaviest teams passing over them, and therefore are of great advantage in paved streets.

They are constructed in three sections. The base or lower section, which covers and protects the dome of the valve, has a broad flange extending around the bottom of the same, thereby giving it a good foundation to rest upon, and prevents settling.

DESCRIPTION OF VALVE BOX BASES

No. of base	No. 4	No. 6	No. 8	No. 16	No. 140	No. 160	No. 162
Style of base	Round	Round	Round	Round	Round*	Oval	Oval
Inside diameter at bottom, inches	10½	15	17½	24	21x12½	26x16	
Height, inches	8	11	11	15½	10½	9½	10½
For valves,	4" and smaller	8" and smaller.	10" and smaller round top.	12or 16" round top.	24" and smaller, round or oval top.	16" and smaller.	20" and smaller
Decreases length of box, inches	3				6	1½	1
Increases cost of box				1 25		50	1 50
Decreases cost of box	25						

This base has a flange of 17 inches square on the bottom, and is especially adapted for use where valves are set near the surface.

*Increases length of box 4¼"

ALL OUR BOXES are coated with COAL TAR inside and out, to protect from rust, etc. This box has been thoroughly tested and adopted by nearly all the water and gas companies and is acknowledged to be the BEST IN USE.

SIZE.	EXTENSION	WEIGHT
AAA	stationary length, 1 ft. 5 in.	68 lbs.
AA	1 ft. 10 in. to 2 ft. 4 in.	87 lbs.
A	2 ft. 4 in. to 3 ft. 4 in.	93 lbs.
B	3 ft. to 4 ft.	100 lbs.
C	3 ft. 6 in. to 4 ft. 6 in.	106 lbs.
CC	4 ft. to 5 ft.	112 lbs.
D	3 ft. 6 in. to 5 ft. 6 in.	115 lbs.
DD	4 ft. to 6 ft.	120 lbs.
E	5 ft. to 6 ft.	125 lbs.
F	5 ft. to 7 ft.	130 lbs.
G	6 ft. to 7 ft.	137 lbs.
H	6 ft. to 8 ft.	140 lbs.
No 58	Extension for 5¼ in. Valve Boxes, increasing length 14 in.	19 lbs.

Prices on Application



No. 6 BASE

BUFFALO WATER METERS



NEW AMERICAN WATER METERS
WITH BRONZE CASES AND GALVANIZED IRON BASES
(Also Furnished with Bronze Bases)



NEW NIAGARA WATER METERS
With all Galvanized Iron Cases

Size of Meter	Price of Meter with Bronze Case and Galv. Iron Base	Price of Meter, all Bronze Outside Case	Pipe Size of Brass Couplings	Price of Brass Couplings per pair	Size of Meter	Price of Meter Galvanized Iron Case	Pipe Size of Brass Couplings	Price of Brass Couplings per pair.
$\frac{5}{8}$ x $\frac{1}{2}$ inch	12 00	13 35	$\frac{3}{4}$ inch	70	$\frac{5}{8}$ x $\frac{1}{2}$ inch	10 70	$\frac{1}{2}$ inch	70
$\frac{5}{8}$ x $\frac{3}{4}$ inch	12 00	13 35	$\frac{1}{2}$ inch	1 00	$\frac{5}{8}$ x $\frac{3}{4}$ inch	10 70	$\frac{3}{4}$ inch	1 00
1 inch	18 00	20 00	$\frac{3}{4}$ inch	1 00	$\frac{5}{8}$ x 1 inch	16 00	$\frac{3}{4}$ inch	1 00
1 $\frac{1}{4}$ inch	24 00	26 70	1 inch	1 35	1 inch	21 25	1 inch	1 35
1 $\frac{1}{2}$ inch	37 50	41 70	1 $\frac{1}{4}$ inch	2 00	1 $\frac{1}{4}$ inch	33 35	1 $\frac{1}{4}$ inch	2 00
1 $\frac{3}{4}$ inch	52 50	58 35	1 $\frac{1}{2}$ inch	2 50	1 $\frac{1}{2}$ inch	46 70	1 $\frac{1}{2}$ inch	2 50
2 inch	75 00	83 35	2 inch	3 35	2 inch	66 70	2 inch	3 35

Average Capacity, Dimensions and Weight
New American and New Niagara Water Meters

Size of Meter	Greatest Proper Capacity per minute	In. High	In. Wide	Inches Long Meter only	Inches long including Couplings	Weight with couplings Boxed
$\frac{5}{8}$ x $\frac{1}{2}$ inch	3 cu. ft.	6 $\frac{1}{2}$	6	7 $\frac{3}{8}$	12 $\frac{1}{2}$	15 lbs.
$\frac{5}{8}$ x $\frac{3}{4}$ inch	3 cu. ft.	6 $\frac{1}{2}$	6	7 $\frac{3}{8}$	12 $\frac{1}{2}$	15 lbs.
$\frac{5}{8}$ x 1 inch	5 cu. ft.	6 $\frac{3}{4}$	7	9	14	20 lbs.
1 inch	8 cu. ft.	7 $\frac{1}{2}$	8	10 $\frac{1}{2}$	16	30 lbs.
1 $\frac{1}{4}$ inch	12 cu. ft.	10 $\frac{1}{4}$	10 $\frac{1}{4}$	13	18 $\frac{1}{2}$	60 lbs.
1 $\frac{1}{2}$ inch	20 cu. ft.	11	12 $\frac{3}{4}$	15 $\frac{1}{2}$	21 $\frac{1}{4}$	100 lbs.
2 inch	32 cu. ft.	12 $\frac{1}{2}$	15	18 $\frac{1}{4}$	24 $\frac{1}{2}$	150 lbs.

NET PRICE LIST

METER PARTS AND APPLIANCES

galvanized iron top to replace breakage by frost	50
galvanized iron bottom to replace breakage by frost	50
hard rubber disc	50
Dial extensions of any length up to four feet and to fit all sizes of American and Niagara Meters	1 50
Longer extensions, extra per foot	20
Curb box to cover extension dial	1 00
Iron lock box inclosing $\frac{5}{8}$ meter and couplings	2 00
Key wrench	25
Meter record book, accounts for 300 meters	3 00
Meter reading book, large pocket size	1 00
Jet meter for filling sewer flush tank, calibrated	2 55
Jet meter for filling sewer flush tank, not calibrated	1 20
Cast iron ring and cover for 15 inch tile meter curb box	2 50
$\frac{1}{2}$ inch quarter bend brass couplings, per pair	40
$\frac{3}{4}$ inch quarter bend brass couplings, per pair	60
1 inch quarter bend brass couplings, per pair	80
Horizontal connection for $\frac{5}{8}$ inch meter on $\frac{3}{4}$ inch vertical pipe	1 00

$\frac{1}{2}$, $\frac{3}{4}$, and 1 inch quarter bend brass couplings are furnished at the same prices as the regular straight couplings.

The $\frac{5}{8}$ inch meter is furnished for either $\frac{1}{2}$ inch or $\frac{3}{4}$ inch pipe, and has ample capacity for 90 per cent of the consumers on most water works.

For convenience, when orders will permit, six of the $\frac{5}{8}$ inch meters are packed in a case weighing 82 pounds.

No charge for boxing or cartage.

STANDARD THICKNESS AND WEIGHTS OF CAST IRON WATER PIPE

Nominal Inside Diameter, Inches	Class A 100 ft. Head 43 Lbs. Pressure			Class B 200 ft. Head 86 Lbs. Pressure			Class C 300 ft. Head 130 Lbs. Pressure			Class D 400 Ft. Head 173 Lbs. Pressure			Lead per Joint, Pounds	Hemp per Joint, Pounds	Nominal Inside Diameter, Inches
	Thick- ness, In.	Weight Per		Thick- ness, In.	Weight Per		Thick- ness In.	Weight per		Thick- ness, In.	Weight per				
		Ft.	Lgth.		Ft.	Lgth.		Ft.	Lgth.		Ft.	Leng.				Ft.	Leng.
2	5-16	7.	63	2"	Pipe	Lay	9' 0"						3.25	.14	2
3	13-32	14.5	174	15-32	16.5	198							4.4	.18	3
4	.42	20.0	240	.45	21.7	260	.48	23.3	280	.52	25.0	300	5.5	.21	4
6	.44	30.8	370	.48	33.3	400	.51	35.8	430	.55	38.3	460	8.0	.31	6
8	.46	42.9	515	.51	47.5	570	.56	52.1	625	.60	55.8	670	11.5	.44	8
10	.50	57.1	685	.57	63.8	765	.62	70.8	850	.68	76.7	920	14.5	.53	10
12	.54	72.5	870	.62	82.1	985	.68	91.7	1100	.75	100.0	1200	18.0	.61	12
14	.57	89.6	1075	.66	102.5	1230	.74	116.7	1400	.82	129.2	1550	21.5	.81	14
16	.60	108.3	1300	.70	125.0	1500	.80	143.8	1725	.89	158.3	1900	24.0	.94	16
18	.64	129.2	1550	.75	150.0	1800	.87	175.0	2100	.96	191.7	2300	27.0	1.00	18
20	.67	150.0	1800	.80	175.0	2100	.92	208.3	2500	1.03	229.2	2750	31.5	1.25	20
24	.76	204.2	2450	.89	233.3	2800	1.04	279.2	3350	1.16	306.7	3680	37.0	1.50	24
30	.88	291.7	3500	1.03	333.3	4000	1.20	400.0	4800	1.37	450.0	5400	51.0	2.06	30
36	.99	391.7	4700	1.15	454.2	5450	1.36	545.8	6550	1.58	625.0	7500	75.0	3.00	36
42	1.10	512.5	6150	1.28	591.7	7100	1.54	716.7	8600	1.78	825.0	9900	90.0	3.62	42
48	1.26	666.7	8000	1.42	750.0	9000	1.71	908.3	10900	1.96	1050.0	12600	110.0	4.37	48
54	1.35	800.0	9600	1.55	933.3	11200	1.90	1141.7	13700	2.23	1341.7	16100	13.00	5.25	54
60	1.39	916.7	11000	1.67	1104.2	13250	2.00	1341.7	16100	2.38	1583.3	19000	15.00	6.25	60
72	1.60	1257.5	15090	1.95	1538.3	18460	2.39	1868.3	22420	2.82	2217.5	26610	22.00	9.00	72

All Pipe cast vertically in dry sand in twelve-foot lengths, exclusive of bell, except 2 inch, which are 9 feet long. Other weights furnished when required. All pipes are tested with hydraulic pressure to 306 pounds per square inch. Weights on Lead and Hemp are approximate.

CAST IRON PIPE SPECIALS

For Water and Gas Mains

Size			Tees		Weight, lbs.	Size			Tees		Weight, lbs.
3 x 3 x 3 inches					72	10 x 10 x 6 inches					384
4 x 4 x 4 inches					106	10 x 10 x 4 inches					335
4 x 4 x 3 inches					95	12 x 12 x 12 inches					610
6 x 6 x 6 inches					195	12 x 12 x 10 inches					530
6 x 6 x 4 inches					170	12 x 12 x 8 inches					500
6 x 6 x 3 inches					160	12 x 12 x 6 inches					520
8 x 8 x 8 inches					315	12 x 12 x 4 inches					500
8 x 8 x 6 inches					295	14 x 14 x 14 inches					760
8 x 8 x 4 inches					250	16 x 16 x 16 inches					1025
8 x 8 x 3 inches					240	18 x 18 x 18 inches					1150
10 x 10 x 10 inches					435	20 x 20 x 20 inches					1300
10 x 10 x 8 inches					390	24 x 24 x 24 inches					1923

Reducers

Size, inches	3 x 2	4 x 3	6 x 4	8 x 6	10 x 8	12 x 10
Fig. B-13 — Weight, lbs.	30	50	85	135	175	335
Fig. B-14 — Weight, lbs.	25	42	59	90	120	275

Specials

Size, inches	3	4	6	8	10	12
Plugs, weight, lbs.	6	9	17	37	45	55
Caps, weight, lbs.	15	25	36	55	80	110
Sleeves, weight, lbs.	37	52	78	105	175	210
Split Sleeves, weight, lbs.	50	64	110	130	190	240

CAST IRON PIPE SPECIALS FOR WATER AND GAS MAINS

Size	Y's	Weight, lbs.	Size	Y's	Weight, lbs.
3 x 3 x 3 inches		73	8 x 8 x 8 inches		300
4 x 4 x 4 inches		110	10 x 10 x 10 inches		425
6 x 6 x 6 inches		205	12 x 12 x 12 inches		645

Sizes	Cross	Weight, lbs.	Size	Cross	Weight, lbs.
3 x 3 x 3 inches		100	8 x 8 x 8 inches		400
4 x 4 x 4 inches		140	10 x 10 x 10 inches		570
6 x 6 x 6 inches		290	12 x 12 x 12 inches		780

Size, inches	3	4	6	8	10	12
Quarter Bend, weight, lbs.	60	90	152	235	281	390
Eighth Bend, weight, lbs.	42	60	102	145	190	355
Sixteenth Bend, weight, lbs.	37	50	85	135	175	280

Lead Pipe. Scale of Weights

Caliber and Mark	Weight per foot	Caliber and Mark	Weight per foot	Caliber and Mark	Weight per foot
in. E	0 5	3/4 in. C	1 12	2 in. AAA	10 11
in. AAA	1 12	1 in. D	1 3	2 in. AA	8 14
in. AA	1 5	1 in. E	1 0	2 in. A	7 0
in. A	1 2	1 in. AAA	6 0	2 in. B	6 0
in. B	1 0	1 in. AA	4 8	2 in. C	5 0
in. C	0 14	1 in. A	4 0	2 in. D	4 0
in. D	0 10	1 in. B	3 4	2 in. Waste	3 0
in. E	0 7	1 in. C	2 8	2 1/2 in. 3/8 thick	16 11
in. AAA	0 9 1/2	1 in. D	2 4	2 1/2 in. 1/2 thick	13 10
in. AA	3 0	1 in. E	2 0	2 1/2 in. 5/8 thick	10 10
in. A	2 8	1 in. AAA	1 8	2 1/2 in. 3/4 thick	7 13
in. B	2 0	1 in. AA	6 12	2 1/2 in. Waste	6 0
in. C	1 10	1 1/4 in. A	5 12	2 1/2 in. Waste	4 0
in. D	1 3	1 1/4 in. B	4 11	3 in. 3/8 thick	19 9
in. E	1 0	1 1/4 in. C	3 11	3 in. 1/2 thick	16 0
in. AAA	0 12	1 1/4 in. D	3 0	3 in. 5/8 thick	12 9
in. AA	0 10	1 1/4 in. E	2 8	3 in. 3/4 thick	9 4
in. A	0 9	1 1/2 in. AAA	2 0	3 in. Waste	5 0
in. B	3 8	1 1/2 in. AA	8 0	3 in. Waste	3 8
in. C	2 12	1 1/2 in. A	7 0	3 1/2 in. 3/8 thick	22 8
in. D	2 8	1 1/2 in. B	6 4	3 1/2 in. 1/2 thick	18 7
in. E	2 0	1 1/2 in. C	5 0	3 1/2 in. 5/8 thick	14 8
in. AAA	1 7	1 1/2 in. D	4 4	3 1/2 in. 3/4 thick	10 12
in. AA	1 4	1 1/2 in. E	3 8	3 1/2 in. 7/8 thick	25 6
in. A	1 0	1 1/2 in. Waste	3 0	3 1/2 in. 1 thick	20 14
in. B	0 12	1 3/4 in. AAA	2 0	4 in. 5/8 thick	16 7
in. C	4 14	1 3/4 in. AA	8 8	4 in. 1/2 thick	12 2
in. D	4 0	1 3/4 in. A	6 7	4 in. Waste	8 0
in. E	3 8	1 3/4 in. B	5 0	4 in. Waste	6 0
in. AAA	3 0	1 3/4 in. C	4 0	4 in. Waste	5 0
in. AA	2 3	1 3/4 in. D	3 10	5 in. Waste	7 8

Lead Tubing

1/8 inch, weight 3 oz.

1/4 inch, weight 5 oz.

TABLE OF DIMENSIONS
OF
STANDARD WEIGHT OF WROUGHT PIPE

$1\frac{1}{4}$ and smaller proved to 300 lbs. per sq. in. by hydraulic pressure.
 $1\frac{1}{2}$ and larger proved to 500 lbs. per sq. in. by hydraulic pressure.

Inside Diameter, Inches	Actual Outside Diameter. Inches	Thickness, Inches	Actual Inside Diameter. Inches	Inside Circumference Inches	Outside Circumference Inches	Length of Pipe per square foot of Inside Surface	Length of Pipe per square foot of Outside Diameter	Inside Area Inches	Outside Area Inches	Length of Pipe containing one cubic foot	Weight per foot Pounds	Number of Threads per inch of Screw	Taper of Threads per inch of Screw
$\frac{1}{8}$	0.405	0.068	0.270	0.848	1.272	14.15	9.44	0.0572	0.129	2500.	0.243	27	1-32
$\frac{1}{4}$	0.54	0.088	0.364	1.144	1.696	10.50	7.075	0.1041	0.229	1385.	0.422	18	1-32
$\frac{3}{8}$	0.675	0.091	0.494	1.552	2.121	7.67	5.657	0.1916	0.358	751.5	0.561	18	1-32
$\frac{1}{2}$	0.84	0.109	0.623	1.957	2.652	6.13	4.502	0.3048	0.554	472.4	0.845	14 $\frac{1}{2}$	1-32
$\frac{3}{4}$	1.05	0.113	0.824	2.589	3.299	4.635	3.637	0.5333	0.866	270.	1.126	14	1-32
1	1.315	0.134	1.048	3.292	4.134	3.679	2.903	0.8627	1.357	166.9	1.670	11 $\frac{1}{2}$	1-32
$1\frac{1}{4}$	1.66	0.140	1.380	4.335	5.215	2.768	2.301	1.496	2.164	96.25	2.258	11 $\frac{1}{2}$	1-32
$1\frac{1}{2}$	1.90	0.145	1.611	5.061	5.969	2.371	2.01	2.038	2.835	70.65	2.694	11 $\frac{1}{2}$	1-32
2	2.375	0.154	2.067	6.494	7.461	1.848	1.611	3.335	4.430	42.36	3.667	11 $\frac{1}{2}$	1-32
$2\frac{1}{2}$	2.875	0.204	2.468	7.754	9.032	1.547	1.328	4.783	6.491	30.11	5.773	8	1-32
3	3.50	0.217	3.067	9.636	10.996	1.245	1.091	7.388	9.621	19.49	7.547	8	1-32
$3\frac{1}{2}$	4.00	0.226	3.548	11.146	12.566	1.077	0.955	9.887	12.566	14.56	9.055	8	1-32
4	4.50	0.237	4.026	12.648	14.137	0.949	0.849	12.730	15.904	11.31	10.728	8	1-32
$4\frac{1}{2}$	5.00	0.247	4.508	14.153	15.708	0.848	0.765	15.939	19.635	9.03	12.492	8	1-32
5	5.563	0.259	5.045	15.849	17.475	0.757	0.629	19.990	24.299	7.20	14.564	8	1-32
6	6.625	0.280	6.065	19.054	20.813	0.63	0.577	28.889	34.471	4.98	18.767	8	1-32
7	7.625	0.301	7.023	22.063	23.954	0.544	0.595	38.737	45.663	3.72	23.410	8	1-32
8	8.625	0.322	7.982	25.076	27.096	0.478	0.444	50.039	58.426	2.88	28.347	8	1-32
9	9.688	0.344	9.001	28.277	30.433	0.425	0.394	63.633	73.715	2.26	34.078	8	1-64
10	10.75	0.366	10.019	31.475	33.772	0.381	0.355	78.838	90.762	1.80	40.641	8	1-64
11	12.00	0.388	11.224	35.261	37.699	0.340	0.318	98.942	113.097	1.455	47.727	8	1-64
12	13.00	0.410	12.180	38.264	40.840	0.313	0.293	116.535	132.732	.235	54.655	8	1-64
13	14.00	0.432	13.136	41.268	43.982	0.290	0.273	134.582	153.938	1.069	61.940	8	1-64
14	15.00	0.454	14.092	44.271	47.124	0.271	0.254	155.968	186.715	.923	70.008	8	1-64
15	16.00	0.476	15.048	47.274	50.265	0.254	0.238	177.867	201.162	.809	78.269	8	1-64
16	17.00	0.498	16.004	50.278	53.407	0.238	0.225	201.162	226.980	.715	87.120	8	1-64
17	18.00	0.520	16.960	53.281	56.548	0.225	0.212	225.907	254.469	.638	96.379	8	1-64
18	19.00	0.542	17.916	56.284	59.690	0.213	0.201	252.096	283.529	.571	106.067	8	1-64
19	20.00	0.564	18.872	59.288	62.832	0.202	0.191	279.720	314.160	.515	116.214	8	1-64
20	21.00	0.586	19.828	62.291	65.973	0.192	0.183	308.771	346.361	.466	126.760	8	1-64

TABLE OF DIMENSIONS OF EXTRA STRONG WROUGHT PIPE

Nominal Inside Diameter Inches	Actual Inside Diameter Inches	Actual Outside Diameter Inches	Thickness Inches	Inside Circumference Inches	Outside Circumference Inches	Length of Pipe per square ft. of inside Surface	Length of Pipe per square ft. of outside Surface	Inside Area Sq. inches	Outside Area Sq. inches	Nominal Weight per foot Pounds
1/8	20	40	10	64	1 27	18 63	9 43	03	12	29
1/4	29	54	12	92	1 69	12 98	7 07	06	22	54
3/8	42	67	12	1 32	2 12	9 07	5 65	13	35	74
1/2	54	84	14	1 70	2 63	7 04	4 54	23	55	1 09
3/4	73	1 05	15	2 31	3 29	5 10	3 63	45	86	1 53
1	95	1 31	18	2 98	4 13	4 01	2 90	71	1 35	2 17
1 1/4	1 27	1 66	19	3 99	5 21	3 00	2 30	1 27	2 16	3 00
1 1/2	1 49	1 90	20	4 69	5 96	2 55	2 01	1 75	2 83	3 63
2	1 93	2 37	22	6 07	7 46	1 97	1 60	2 93	4 43	5 02
2 1/2	2 31	2 87	28	7 27	9 03	1 64	1 32	4 20	6 49	7 67
3	2 89	3 50	30	9 08	10 99	1 32	1 00	6 50	9 62	10 25
3 1/2	3 35	4 00	32	10 54	12 56	1 13	.95	8 85	12 56	12 47
4	3 81	4 50	34	11 99	14 13	1 00	.84	11 44	15 90	14 97
4 1/2	4 25	5 00	35	13 35	15 71	.90	.76	14 18	19 63	17 60
5	4 81	5 56	37	15 12	17 47	.79	.68	18 19	24 30	20 54
6	5 75	6 62	43	18 06	20 81	.66	.57	25 93	34 47	28 58
7	6 62	7 62	50	20 81	23 95	.58	.50	34 47	45 66	37 60
8	7 50	8 62	56	23 56	27 10	.51	.44	44 18	58 42	47 85

Extra strong and double extra strong pipe is always shipped without Threads or Couplings unless otherwise specified. Threads and Couplings on extra strong pipe are always charged extra. Quotations will not cover them unless they are clearly specified in requests for prices.

For prices see latest current lists.

TABLE OF DIMENSIONS DOUBLE EXTRA STRONG WROUGHT PIPE

Nominal Inside Diameter Inches	Actual Inside Diameter Inches	Actual Outside Diameter Inches	Thickness Inches	Inside Circumference inches	Outside Circumference inches	Length of Pipe per Sq. ft. of Inside Surface	Length of Pipe per Sq. ft. of Outside Surface	Inside Area Sq. Inches	Outside Area Sq. Inches	Nominal Weight per foot Pounds
3/8	23	67	22	73	2 12	15 69	5 65	04	36	96
1/2	24	84	29	76	2 63	15 66	4 54	04	55	1 50
3/4	42	1 05	31	1 32	3 29	9 04	3 63	13	86	2 30
1	58	1 31	36	1 84	4 13	6 50	2 90	27	1 35	3 40
1 1/4	88	1 66	38	2 78	5 21	4 31	2 30	61	2 16	5 00
1 1/2	1 08	1 90	40	3 41	5 96	3 51	2 01	93	2 83	6 45
2	1 49	2 37	44	4 68	7 46	2 56	1 60	1 74	4 43	9 48
2 1/2	1 75	2 87	56	5 51	9 03	2 17	1 32	2 41	6 49	13 30
3	2 28	3 50	60	7 17	10 99	1 67	1 09	4 09	9 62	17 70
3 1/2	2 71	4 00	64	8 53	12 56	1 40	.95	5 79	12 56	22 00
4	3 13	4 50	68	9 85	14 13	1 21	.84	7 72	15 90	24 70
4 1/2	3 56	5 00	72	11 20	15 71	1 05	.76	9 96	19 64	32 45
5	4 06	5 56	75	12 76	17 47	.94	.68	12 69	24 30	37 10
6	5 06	6 62	78	15 89	20 81	.78	.57	20 10	34 47	50 10
7	5 98	7 62	82	18 83	23 95	.62	.50	28 16	45 66	60 34
8	6 88	8 62	87	21 61	27 10	.56	.44	37 17	58 43	71 52

Extra strong and double extra strong pipe is always shipped without Threads or Couplings unless otherwise specified. Threads and Couplings on extra strong and double extra strong pipe are always charged extra. Quotations will not cover them unless they are clearly specified in requests for prices.

For prices see latest current lists.

Standard Flanged Fittings and Flanges

Size	2	2½	3	3½	4	4½	5	6	7	8	9	10	12	14	15	16
Flanged elbows, faced only	4 75	5 00	5 75	6 50	7 25	9 00	9 75	12 00	16 00	20 00	26 00	32 00	44 00	58 00	72 00	84 00
Flanged elbows, faced and drilled	5 75	6 25	7 00	7 75	9 25	11 00	11 75	14 00	19 75	23 75	30 00	36 00	50 00	65 00	80 00	93 00
Flanged 45° elbows, faced only	5 25	5 50	6 25	7 25	8 00	10 00	10 75	13 00	16 00	20 00	26 00	32 00	44 00	58 00	72 00	84 00
Flanged 45° elbows, faced and drilled	6 25	6 75	7 50	8 50	10 00	12 00	12 75	15 00	19 75	23 75	30 00	36 00	50 00	65 00	80 00	93 00
Flanged tees, faced only	7 00	7 25	8 25	9 50	10 50	13 00	14 25	17 50	23 00	29 00	38 00	46 50	64 00	84 00	105 00	122 00
Flanged tees, faced and drilled	8 50	9 00	10 00	11 25	13 50	16 00	17 25	20 50	28 75	34 75	44 00	52 50	73 00	95 00	117 00	135 00
Reducing flanged tees, faced only	8 00	8 25	9 50	11 00	12 00	15 00	16 25	20 00	26 50	33 50	43 50	53 50	74 00	96 00	120 00	140 00
Reducing flanged tees, faced and drilled	9 50	10 00	11 25	12 75	15 00	18 00	19 25	23 00	32 00	39 00	50 00	60 00	83 00	107 00	132 00	153 00
Double sweep flanged tees, faced only	8 00	8 25	9 50	11 00	12 00	15 00	16 25	20 00	26 50	33 50	43 50	53 50	74 00	96 00	120 00	140 00
Double sweep flanged tees, faced and drilled	9 50	10 00	11 25	12 75	15 00	18 00	19 25	23 00	32 00	39 00	50 00	60 00	83 00	107 00	132 00	153 00
Reducing double sweep flanged tees, faced only	9 25	9 50	11 00	12 50	13 75	17 25	18 75	23 00	30 00	38 50	50 00	61 50	85 00	110 00	138 00	160 00
Reducing double sweep flanged tees, faced and drilled	10 75	11 25	12 75	14 25	16 75	20 25	21 75	26 00	35 50	44 00	56 50	68 00	94 00	121 00	150 00	173 00
Flanged crosses, faced only	9 50	10 00	11 50	13 00	14 50	18 00	19 50	24 00	32 00	40 00	52 00	64 00	88 00	116 00	144 00	168 00
Flanged crosses, faced and drilled	11 50	12 50	14 00	15 50	18 50	22 00	23 50	28 00	39 50	47 50	60 00	72 00	100 00	130 00	160 00	186 00
Reducing flanged crosses, faced only	11 00	11 50	13 25	15 00	16 75	20 75	22 50	27 50	37 00	46 00	60 00	74 00	100 00	132 00	165 00	193 00
Reducing flanged crosses, faced and drilled	13 00	14 00	15 75	17 50	20 75	25 00	26 50	31 50	45 00	53 50	68 00	82 00	112 00	146 00	180 00	210 00
Flanged laterals, faced only .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flanged laterals, faced and drilled .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Reducing flanged laterals, faced only .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Reducing flanged laterals, faced and drilled .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Standard flanges, faced only	1 20	1 40	1 60	1 80	2 15	2 50	2 80	3 20	4 35	5 00	6 75	7 75	10 50	13 75	18 00	22 50
Standard flanges, faced and drilled	1 50	2 00	2 25	2 50	3 00	3 35	3 65	4 00	5 75	6 50	8 25	9 25	12 50	16 00	21 00	26 00
Solid flanges, faced only	1 40	1 60	1 85	2 10	2 50	2 90	3 25	3 70	5 00	5 75	7 75	9 00	14 00	17 50	22 50	28 00
Solid flanges, faced and drilled	1 70	2 20	2 50	2 80	3 35	3 75	4 10	4 50	6 40	7 25	9 25	10 60	16 00	19 75	25 50	31 50

The above prices for flanges are for flanges of the same outside diameter as that of regular flange on the flange fittings.

REVISED CLASSIFICATION AND PRICE LIST

June 5, 1907

MALLEABLE IRON FITTINGS

FOR STEAM, GAS AND WATER

CLASS	A	B	C
Price, per Pound, Black	40	20	12
Price, per Pound, Galvanized	50	28	19
Elbows	$\frac{1}{8} \times \frac{1}{8}$ $\frac{1}{4} \times \frac{1}{8}$ $\frac{3}{8} \times \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$ $\frac{3}{8} \times \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2}$ $\frac{3}{8} \times \frac{3}{8}$ $\frac{1}{2} \times \frac{1}{4}$ & $\frac{1}{2} \times \frac{3}{8}$	* $\frac{3}{4}$ and larger
Elbows, Right and Left	$\frac{1}{4}$ and $\frac{3}{8}$	$\frac{1}{2}$, $\frac{3}{4}$, and 1.	* $1\frac{1}{4}$ and larger
Elbows, 45°		$\frac{1}{2}$ to 2 inclusive	$2\frac{1}{2}$ and larger
Elbows, Street		$\frac{1}{4}$ and $\frac{3}{8}$ $\frac{1}{2}$ and $\frac{3}{4}$ $\frac{3}{4} \times \frac{1}{2}$ and $1 \times \frac{3}{4}$	larger
Elbows, Side Outlet		All Sizes	
Elbows, Drop		All Sizes, Reducing and Straight	
	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$ $\frac{3}{8} \times \frac{3}{8}$	
	$\frac{1}{8} \times \frac{1}{4}$	$\frac{1}{4} \times \frac{3}{8}$ $\frac{3}{8} \times \frac{1}{4}$ $\frac{1}{2}$, and $\frac{1}{2}$	* $\frac{3}{4}$ and larger
Tees	$\frac{1}{4} \times \frac{1}{8}$ $\frac{3}{8} \times \frac{1}{8}$	Reducing	
Tees, Street		$\frac{3}{8} \times \frac{1}{4}$ $\frac{3}{8} \times \frac{3}{8}$ $\frac{3}{4}$ and $1 \times \frac{3}{4}$	1 and larger
Tees, Four-Way		All Sizes	
Tees, Drop		All Sizes, Straight and Reducing	
Straight Crosses		$\frac{1}{4}$ to 1 inclusive	$1\frac{1}{4}$ and larger
Reducing Crosses		1 and smaller	* $1\frac{1}{4}$ and larger
Y Bends		All Sizes	
Return Bends	$\frac{1}{4}$	$\frac{3}{8}$ to 1 inclusive	$1\frac{1}{4}$ and larger
Return Bends, Right and Left	$\frac{3}{8}$ and $\frac{1}{2}$	$\frac{3}{4}$ and larger	
Couplings, R. H.	$\frac{1}{8}$	$\frac{1}{4}$ to $\frac{3}{4}$ inclusive	1 and larger
Couplings, R. and L.	$\frac{1}{4}$	$\frac{1}{4}$ to $\frac{3}{4}$ inclusive	1 and larger
Couplings, Reducing	$\frac{1}{4} \times \frac{1}{8}$ $\frac{3}{8} \times \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$ to $1 \times \frac{3}{4}$ inclusive	* $1\frac{1}{4}$ and larger
Caps	$\frac{1}{8}$	$\frac{1}{4}$ to 1 inclusive	$1\frac{1}{4}$ and larger
Locknuts	$\frac{1}{8}$	$\frac{1}{4}$ to $1\frac{1}{4}$ inclusive	$1\frac{1}{2}$ and larger
Extension Pieces		All Sizes	
Waste Nuts		All Sizes	
Chandelier Hooks		All Sizes	
Wall Plates		All Sizes	
Pump Rod Couplings	$\frac{3}{8}$, $\frac{3}{8} \times 7-16, 7-16$	$\frac{1}{2}$ and $\frac{3}{4}$	

*Such fittings in Class C as have outlets smaller than $\frac{3}{4}$ in. will be classed as "B."

The run of Tees gives the size for purpose of classification; the outlet being larger does not change it.

Right-and-left fittings not classified take one class higher than right hand. For small quantities of right-and-left fittings we charge extra, according to actual time threading to order.

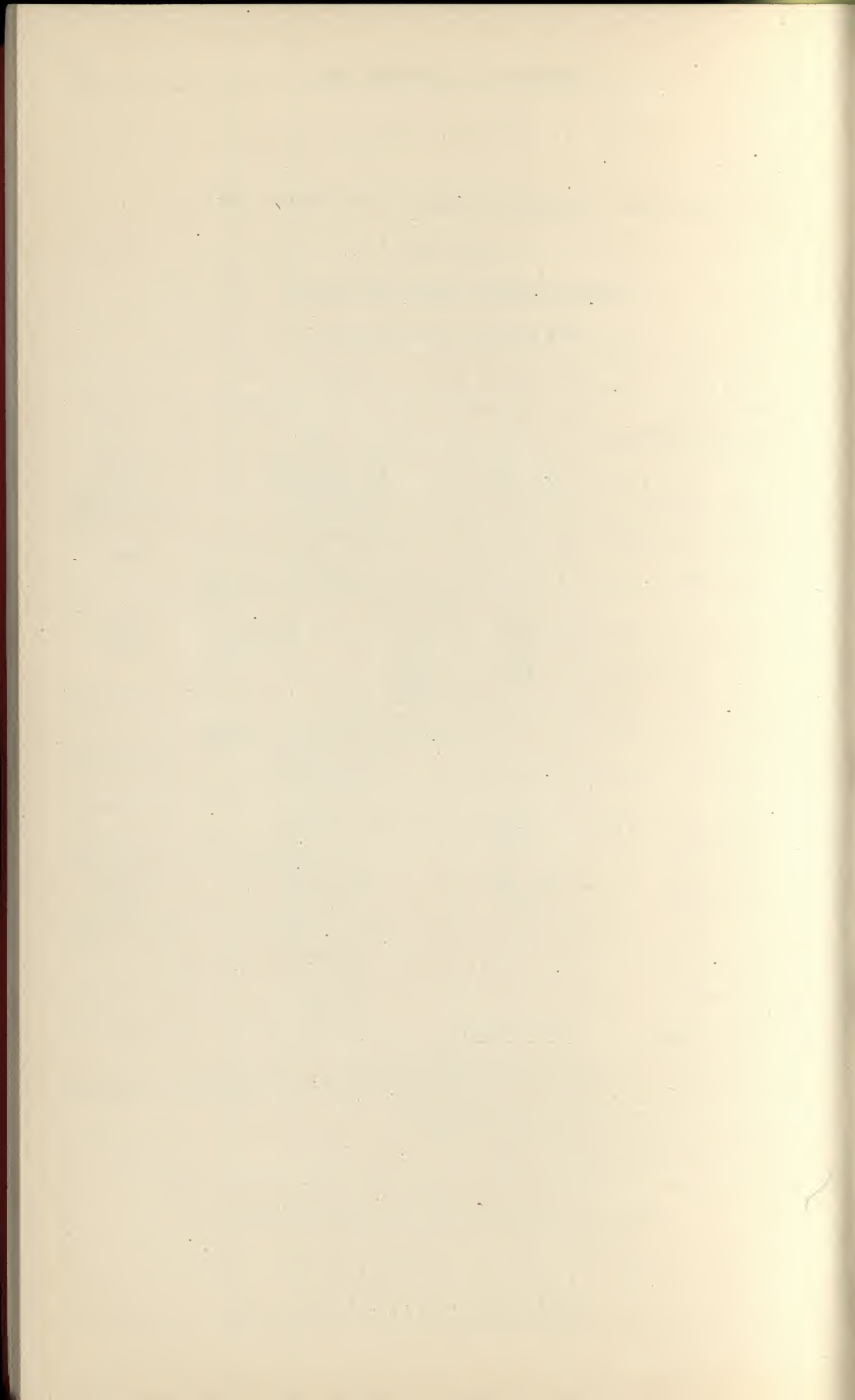
Orders of from 10 to 25 pounds will be charged on this basis:

Class "A" at their respective price.

Classes "B" and "C" at the price of Class "B."

Orders weighing less than 10 pounds (either Black or Galvanized or both) will be charged by the piece.

IN ORDERING BE PARTICULAR TO MENTION BEADED OR GAS



INDEX

A

	PAGE
Acme Sewer Valve	31
A. B. C. Clamps and Hangers	4
Air Cocks	6
Allen Automatic Air Valves	17
American Boilers	42-43
" Meters	51
" Unions	3
Anderson Steam Traps	13
Armstrong Stock and Dies	37
Arco Steam Boilers	43
" Water	44
Asbestos Packed Cocks	6
Augers, Gas Fitters	37
Automatic Air Valves	17
" Grease Cups	10

B

Back Pressure Valves	6
Barnes Pipe Cutter	38
Barrett Sewer Traps	31
" Cleanouts	30
Bath Tubs, Steel Clad	24
Basins, Earthenware	32
" Enameled Iron	32
Beam Clamps	4
Beaton Floor and Ceiling Plates	6
Bends, Lead	30
Bibbs, Compression	28
" Ground Key	27
" Fuller	29
" Self Closing	29
Blast, Furnace	41
" Torch	41
Boiler, Brackets	22-24
" Pumps	16
" Stands	22-24
" Tubes	1
Boilers, Copper, Brown Bros.	22
" " Wilhelmi	22
" " Modern	22
" Galvanized	22
Boston Pressure Regulator	40
Branch Tees	2
Brass Cocks	6-10
" Fittings	7-8
" Oil Cups	11
" Pipe	10
" " Wrench	40
" Plugs, C. C. Thread	48

B

	PAGE
Brass Tubing, Fine Thread	10
" Unions	8
" Valves	6-7-9-10
" Water Connections	48
Buffalo Pattern Service Box	50
" " Gate	50
" Water Meters	51

C

Cast Iron Clips	1
" " Fittings	1-2-3-4
" " Flanges	5
" " Pipe	52
" " Railing Flanges	15
" " Specials	52
Caulking Irons	39
Cap Pattern Stop and Wastes	48
Chapman Gate Valves	9-10
Check Valves, Brass	6-9
" " Iron Body	10-44
Clamps, Beam	4
Clark's Damper Regulator	15
Cleanouts, Barrett	30
" Common Sense	30
" Dandy	30
Cocks, Air	6
" Asbestos Packed	6
" Brass	6
" Corporation	27-46-47
" Gas	9
" Gauge	11
" Iron	6
" Steam	6
Coils, Tongs	39
Columns, Water Gauge	11
Common Lubricators	11
" Tongs	39
Compression Bibbs	28
" Stop and Wastes	28
" Sill Cocks	48
Concrete Sinks and Trays	26
Conductor Pipe	25
Connolly Saddle Fittings	35
Copper Pantry Sinks	31
" Pumps	35
Corporation Cocks	27-46-47
Covering, Pipe	36
Curb Cocks, Inverted Key	45
" " Newport	27-46

INDEX — Continued

C	PAGE
Cutters, Glass Tube	11
“ Pipe	38

D	
Damper, Regulator, Clark's	15
“ “ Low Pressure	16
Dandy Cleanouts	30
Dart Unions	3
Diamond Joint Cement	39
Die Plate, Armstrong	37
“ “ Miller Ratchet	33
“ “ Solid	37
“ “ Toledo	38
Distributor Fittings	35
Drainage “	32
Drills	39-40
Drive Well Points	36
Doherty Self-Closing Work	29

E	
Earthenware	32-33
Eaves, Trough	25
Edson Diaphragm Pump	35
Enamelled Bowls	32
“ Fittings	4
“ Hoppers	25
“ Lavatories	34
“ Sinks	24-26
“ Urinals	32
Expansion Joints	10
“ Plates	2
“ Tanks	16

F	
Fee and Mason Hangers	6
Feed Water Heater	16
Fittings, Brass, Fine Thread	7-8
“ “ Iron Size	7-8
“ Cast Iron	1-2-3-4-5
“ Conductor	25
“ Connolly Saddle	35
“ Distributor	35
“ Drainage	32
“ Extra Heavy Cast Iron	3
“ Flanged Cast Iron	56
“ Malleable Iron	1

F	PAGE
Fittings, Malleable Iron, Galvanized	4
“ “ Classification	57
“ Soil Pipe	19-20-21
“ Spiral Pipe	25
Flanges, Cast Iron	5
“ “ “ Railing	15
Flue Brushes	13
Furnaces, Gasoline	41
Fuller Work	29
Fusible Plugs	11
Frink Seat Valves	10

G	
Galvanized Boilers	22
“ Check Valves	35
“ Conductor Pipe	25
“ Eaves Trough	25
“ Fittings	4
“ Spiral Pipe	25
“ Unions	3
“ Vent Pipe	25
Gas Fitters' Augers	37
“ Fixture Fittings	39
“ Pliers	39
Gasolene Blow Torch	41
“ Furnace	41
Gate Valves, Brass	9
“ “ Iron Body	10
Glasses, Gauge	11
Glue, Heaters	16
Goose Necks, Lead	47
Gauges, Pressure	11
“ Stream	11
“ Water	11

H	
Hair Felting	16
Hancock Inspirator	12
Hangers, Iron Pipe	4
“ Brass Pipe	6
Hawes Steam Trap	12
Hays Pattern Service Boxes	49
H. & B. Perfection F. & C. Plates	6
Hooks, Lag Screw	5
“ Expansion	2
“ Plates	2
Hoppers, Enamelled Iron	25

INDEX—Continued

H

	PAGE
Hoppers, Earthenware	33
Hot Water Tanks	23
Hopper Cocks, Compression	28
“ “ Self Closing	28

I

Ideal Boilers	42-43
Injectors, Penberthy	12
Inspirators, Hancock	12
Inverted Key Cocks	45
Iron Body Valves	10
“ Cocks	6
“ Cistern Pumps	35
“ Pitcher Pumps	35

J

Jarecki Pattern Service Boxes	49
Jefferson Unions	3
Jenkins Valves	9-10
Joint Cement, Diamond	39
Joints, Expansion	10
“ Steam Swing	11
“ Gas Swing	9

K

Kennedy Valves	9-10
Kewanee Unions	3
Keystone “	3
Kieley Steam Traps	12

L

Lag Screw Hooks	5
Lavatories, Enamelled Iron	34
Lead Bends	30
“ Flange Curb Cocks	45
“ “ Corporation Cocks	47
“ “ Unions	47
“ Goose Necks	47
“ Pipe	53
“ Traps	30
Locknut Nipples	3
Long Screws	3
Low Pressure Damper Regulator	16
Lubricator, Common	11
Ludlow Valves	10

M

	PAGE
Malleable Fittings	1-4
“ Oilers	11
“ Railing Fittings	14-15
“ Unions	3
“ Union Elbows	5
“ “ Tees	5
Mason Pressure Regulators	14
Marble Slabs	31
Meters, Water	51
Miller's Die Plate	36
Moore's Ratchet Drills	40
“ “ Wrenches	40

N

Nason Steam Traps	12
National Feed Water Heater	16
Newport Stop and Wastes	27-46
Nipples, Wrought	2
“ Locknut	3
“ Brass	8
“ Soldering	47
Niagara Water Meters	51
Norwall Automatic Air Valve	17
“ “ Siphon Air Valve	17
“ “ Air and Vacuum Valve	17

O

Oil Cups, Brass	11
Oilers, Malleable Iron	11
O. S. Distributor Fittings	35

P

Packers' Ratchet Drills	40
Pantry Sinks, Copper	31
Patent Guard Stop and Wastes	48-49
Penberthy Injectors	12
Perfection Floor and Ceiling Plates	6
Pipe, Brass	10
“ Cast Iron	52
“ Conductor	25
“ Covering	36
“ Cutters, Barnes	38
“ “ Stanwood	38
“ “ Saunders	38
“ Dimensions	54-55

INDEX—Continued

P	PAGE
Pipe, Flanges	5
“ Hangers	5-25
“ Lead	53
“ Rings and Rolls.....	5
“ Soil	18
“ Spiral	25
“ Specials	52
“ Threading.....	4
“ Wrought	1
Plates, Floor and Ceiling	6
Plumbers' Tools	39
Plugs, Brass C. C. Thread	48
“ Fusible	11
“ Iron	1
Pliers, Gas and Burner	39
Pressure Regulator, Boston	40
“ “ Curtis	14
“ “ Mason	14
Prouty Wire Valve Wheels	15
Pumps, Boiler	16
“ Copper Cistern	35
“ Edson Diaphragm.....	35
“ Gas Fitters' Proving	35
“ Iron Cistern	35
“ “ Pitcher	35
“ Plumbers' Force	35
Radiator Valves, Steam	7
“ “ Hot Water	7
“ “ Syphon Packless	7
Railing Fittings	14-15
“ Flanges	15
Recessed Drainage Fittings.....	32
Ring Plates	2
Rival Automatic Air Valves	17
Robbins's Chain Tongs.....	37
Russell Floor and Ceiling Plates	6

S	PAGE
Saddle Hubs, Connolly	35
Saunders Pipe Cutter	38
Scrapers, Boiler Tube	13
Service Boxes, Buffalo Pattern	50
“ “ Jarecki Pattern	49
“ Goose Necks	47
Sinks, Cast Iron	24
“ Concrete	26
“ Enamelled Iron	24-26
“ Slop Iron	24

S	PAGE
Sinks, Slate	41
“ Soapstone	41
Smith Pipe Vise	40
Soapstone Sinks and Trays	41
Soldering Nipples	47
“ Unions	45
Soil Pipe	18-19
“ “ Fittings	20-21-22
Solid Dies and Plates	37
Spencer Brass Pipe Vise	40
Steam Cocks	11
“ Gauge Cocks	11
“ Gauges	11
“ Swing Joints	11
“ Traps, Anderson	13
“ “ Hawes	12
“ “ Kieley	12
“ “ Nason	12
“ “ Sterling	13
“ “ Vance	13
“ “ Walworth	12
“ “ Whistles	10
Stop and Wastes	27-28-48-49
Standard Water Boiler	42
Stanwood Pipe Cutter	38
Stillson Wrenches	36
Swing Check Valves	9-10-44
“ Joints, Gas	9

T	PAGE
Tanks, Expansion	16
“ Hot Water	16
Taps (Pipe).....	39
Threading Pipe List	4
Thermometers, Hot Water.....	16
Toledo Stock and Dies	38
“ Pipe Vise	40
Tongs, Chain, Robbins	37
“ “ Vulcan	37
“ Coil	39
“ Common	39
Tools, Plumbers'	39
“ Steam Fitters'	37-38-39-40
Traps, Steam, Anderson	13
“ “ Hawes	12
“ “ Kieley	12
“ “ Nason	12
“ “ Sterling	13

INDEX—Continued

T

	PAGE
Traps, Steam, Vance.....	13
“ “ Walworth	12
“ Acme Sewer	31
“ Barrett Sewer	31
“ Lead	30
Trays, Wash, Concrete	26
“ “ Slate	41
“ “ Soap Stone	41
Tubing, Plumbers' Brass	10
Tubes, Boiler	1
Twin Elbows	16

U

Unions, American	3
“ Brass Iron Size	8
“ “ Fine Thread	8
“ Dart	3
“ Flanged.....	1
“ Jefferson	3
“ Keystone	3
“ Kewance	3
“ Lead Flange	47
“ Malleable Iron.....	3
“ Soldering	45
“ “ Ground Joint	45
“ Williams' Brass	8
Union Elbows and Tees, Brass	8
“ “ “ “ Iron	5
“ “ Radiator	7

V

Valves, Angle.....	6
“ Asbestos Disc	10
“ Back Pressure	6
“ Boxes	50
“ Check Globe	6-9
“ “ Swing	9-44
“ “ “ Williams	9
“ Cross	6
“ Chapman Gate	9-10
“ Gate, Chapman.....	9-10
“ “ Jenkins.....	9-10
“ “ Ludlow.....	9-10
“ “ Kennedy.....	9-10
“ “ Peet	9-10
“ “ Walworth	9-10

V

	PAGE
Valves, Galvanized Iron Check	35
“ Globe, Brass	6
“ “ Frink Disc	9
“ “ Iron	9
“ “ Jenkins	9-10
“ “ Powell	9
“ “ Williams	9
“ Radiator Steam	7
“ Hot Water.....	7
“ Sylphon Packless Radiator	7
“ Whistle	10
“ Throttle	15
“ Gate Iron Body, Bell End.....	44
“ Swing Check Iron Body, Bell End.....	44
Vance Steam Trap.....	13
Vent Pipe	25
Vise, Smith	40
“ Spencer	40
“ Packer's	40
“ Toledo.....	40
“ Vanderman	40
“ Walworth	40
“ Kit Pipe	40
Vulcan, Chain Tongs	37

W

Water Connections, Brass.....	48
“ Columns	11
“ Gauges	11
“ Meters	51
“ Pipe, Cast Iron	52
“ Pressure Regulator Boston	40
Walworth Steam Trap	12
“ Pipe Vise	40
“ Valves	10
Well Points	36
Wash Trays, Concrete	26
“ “ Slate	41
“ “ Soapstone	41
Whistles, Steam	10
“ Valves	10
Wire Valve Wheels	15
Wrenches, Brass Pipe	40
“ Coes's Monkey	39
“ Moore's Ratchet	40
“ Stillson	36
Wrought Pipe	1
Worcester Floor and Ceiling Plates	6

The Tudor Press
BOSTON



SPECIAL ATTENTION

GIVEN TO

PIPE CUTTING AND SKETCH WORK

DRILLING FLANGES

PIPE BENDING AND COIL WORK

FLANGED PIPE AND FITTINGS

NICKEL PLATING

Brass Pipe, Fittings, Valves, Etc.

FINISHING AND POLISHING

Brass Fittings, Pipe, Cocks, Valves, Etc.

MADE UP TO SKETCH

Brass Pipe and Fittings in the Rough, Finished, or Nickel Plated

SPECIAL FITTING AND CONNECTIONS

For Special Tank Fixtures with Flush and Supplies. Basin and Bath Fixtures with Supplies and Wastes

REPAIRS, ALTERATIONS, AND GENERAL JOBBING **ON BRASS WORK**

We have the equipment for handling all of above mentioned work, and are prepared to give prompt attention to all orders.

GEORGE E. GILCHRIST CO.,

106 to 110 High and 204 to 216 Congress Sts., Boston, Mass.